

Middle Atmosphere Program

(NASA-CR-181451) MIDDLE ATMOSPHERE PROGRAM:
HANDBOOK FOR MAP, (International Council of
Scientific Unions) 103 p Avail: NTIS HC
A06/MF A01; also available as HC from
SCOSTEP Secretariat, Univ. of Illinois, 1406 G3/46

N88-10444

Unclassified
0104957

ICSU

International Council of Scientific Unions

SCOSTEP

Scientific Committee on Solar-Terrestrial Physics

J. G. Roederer, President
W. I. Axford, Vice President
C. H. Liu, Scientific Secretary

MAP ORGANIZATION

MIDDLE ATMOSPHERE PROGRAM STEERING COMMITTEE

S. A. Bowhill, SCOSTEP, Chairman
K. Labitzke, COSPAR, Vice Chairman
C. H. Liu, SCOSTEP, Secretary

H. S. Ahluwalia, IUPAP
R. D. Bojkov, WMO
A. D. Danilov, COSPAR
J. C. Gille, COSPAR
I. Hirota, IUGG/IAMAP
A. H. Manson, SCOSTEP

T. Nagata, SCAR
R. G. Roper, IUGG/IAMAP
P. C. Simon, IAU
J. Taubenheim, IUGG/IAGA
T. F. VanZandt, URSI
R. A. Vincent, URSI

MAP STANDING COMMITTEES

Data-Management -- G. Hartmann and I. Hirota, Co-Chairmen
Publications -- Belva Edwards, Chairman

MAP STUDY GROUPS

MSG-5 Ions and Aerosols, F. Arnold and M. P. McCormick, Co-Chairmen
MSG-8 Atmospheric Chemistry, G. Witt, Chairman
MSG-9 Measurement of Middle Atmosphere Parameters by Long Duration
Balloon Flights, J. E. Blamont, Chairman

MAP PROJECTS

	Coordinator		Coordinator
AMA:	T. Hirasawa	MAC-SINE:	E. V. Thrane
ATMAP:	J. M. Forbes	MAE:	R. A. Goldberg
DYNAMICS:	K. Labitzke	MASH:	A. O'Neill
GLOBMET:	R. G. Roper	NIEO:	S. Kato
GLOBUS:	J. P. Pommereau	OZMAP:	D. F. Heath
GOSSA:	M. P. McCormick	SSIM:	P. C. Simon
GRATMAP:	D. C. Fritts	SUPER CAMP:	E. Kopp
MAC-EPSILON:	E. V. Thrane	WINE:	U. von Zahn

MAP REGIONAL CONSULTATIVE GROUP

Europe M. L. Chanin, Chairman

M I D D L E
A T M O S P H E R E
P R O G R A M

HANDBOOK FOR MAP

Volume 24

Edited by
Belva Edwards

May 1987

Published for the ICSU Scientific Committee on Solar-Terrestrial Physics (SCOSTEP) with financial assistance from the National Aeronautics and Space Administration under the 1987 Middle Atmosphere Program Management contract and Unesco Subvention 1986-1987.

Copies available from SCOSTEP Secretariat, University of Illinois, 1406 W. Green Street, Urbana, Illinois 61801

MAP DIRECTORY

CONTENTS

MIDDLE ATMOSPHERE PROGRAM STEERING COMMITTEE.	1
MAP STANDING COMMITTEES	1
MAP REGIONAL CONSULTATIVE GROUP	1
MAP SECRETARIAT	1
MAP STUDY GROUPS.	2
MAP PROJECTS.	3
MAP NATIONAL REPRESENTATIVES.	5
INTERNATIONAL ORGANIZATIONS ADHERING TO MAP AND THEIR REPRESENTATIVES.	6
LISTING OF SCIENTISTS BY COUNTRY.	7
ALPHABETICAL INDEX AND ADDRESSES OF SCIENTISTS.	18

PRECEDING PAGE BLANK NOT FILMED

MIDDLE ATMOSPHERE PROGRAM STEERING COMMITTEE

S. A. Bowhill, SCOSTEP, Chairman
K. Labitzke, COSPAR, Vice Chairman
C. H. Liu, SCOSTEP, Secretary

H. S. Ahluwalia, IUPAP
R. D. Bojkov, WMO
A. D. Danilov, COSPAR
J. C. Gille, COSPAR
I. Hirota, IUGG/IAMAP
A. H. Manson, SCOSTEP
T. Nagata, SCAR
R. G. Roper, IUGG/IAMAP
P. C. Simon, IAU
J. Taubenheim, IUGG/IAGA
T. E. VanZandt, URSI
R. A. Vincent, URSI

MAP STANDING COMMITTEES

DATA MANAGEMENT - G. Hartmann and I. Hirota, Co-Chairmen
Members: J. H. Allen, J. J. Barnett, C. F. Sechrist, Jr., G. Witt

PUBLICATIONS - Belva Edwards, Chairman
Members: R. D. Bojkov, S. A. Bowhill, S. C. Chakravarty, C. H. Liu,
V. V. Viskov

MAP REGIONAL CONSULTATIVE GROUP

Europe: M. L. Chanin, Chairman

MAP SECRETARIAT

Department of Electrical and Computer Engineering
University of Illinois
1406 W. Green Street
Urbana, Illinois 61801-2991

C. H. Liu, Scientific Secretary
Belva Edwards, Administrative Secretary

MAP STUDY GROUPS

MSG-5 Ions and Aerosols: The purpose of MSG-5 is to review and evaluate theoretical and experimental studies involving middle atmosphere ions and their relationships to neutral gases and aerosols, and to prepare recommendations for coordinated research projects.
Co-Chairmen: F. Arnold and M. P. McCormick
Members: M. Ackerman, E. Arijs, A. W. Castleman, M. L. Chanin, E. E. Ferguson, D. J. Hofmann, E. Kopp, A. Ono, L. Thomas, R. P. Turco

MSG-8 Atmospheric Chemistry: The purpose of MSG-8 is to review and evaluate theoretical and experimental studies of middle atmospheric chemical composition, and to identify areas of future research.
Chairman: G. Witt
Members: J. J. Barnett, G. Brasseur, A. Ebel, E. J. Llewellyn, D. Offermann, C. R. Philbrick, S. Solomon, R. P. Wayne

MSG-9 Measurement of Middle Atmosphere Parameters by Long Duration Balloon Flights: The task of MSG-9 is to identify the scientific objectives of long-duration circumpolar balloon flights, and to prepare plans for international participation in measurements in both hemispheres.
Chairman: J. Blamont
Members: J. Eddy, D. H. Ehhalt, M. A. Geller, Yu. P. Koshelkov, K. Labitzke, L. R. Megill, F. S. Rowland, H. E. Volland

MAP PROJECTS

AMA- Antarctic Middle Atmosphere Program: The purpose of AMA is to coordinate investigations of dynamics, structure, composition, particle precipitation, middle atmosphere-low atmosphere interactions, and atmospheric pollution of the Antarctic middle atmosphere, and northern-southern polar atmosphere comparisons. Coordinator: T. Hirasawa

ATMAP- Atmospheric Tides Middle Atmosphere Program: The purpose of ATMAP is to facilitate the interaction among observationalists, data analysts, theoreticians and modellers in order to elucidate the nature of atmospheric tides on a global scale. Coordinator: J. M. Forbes

DYNAMICS- Dynamics of the Middle Atmosphere in Winter: The purpose of DYNAMICS is to coordinate studies of middle atmosphere dynamical quantities and to intercompare basic data obtained from several measurement techniques, with emphasis on disturbed winter conditions. Coordinator: K. Labitzke

GLOBMET- Global Meteor Observation System: The aim of GLOBMET is to intensify research in meteor physics and astronomy in the 1980s by making wider use of the latest achievements in this field and expanding international coordination in meteor research. Coordinator: R. G. Roper

GLOBUS- Global Budget of Stratospheric Trace Constituents: The purpose of GLOBUS is to coordinate two integrated campaigns to compare results of experimental techniques for measuring stratospheric trace gases, and to measure the latitudinal distribution of trace gases using near simultaneous balloon flights. Coordinator: D. Offermann

GOSSA- Global Observations and Studies of Stratospheric Aerosols: The purpose of GOSSA is to coordinate measurements of aerosol characteristics, to disseminate alerts and calendars, to communicate data sets to experimenters, and to organize workshops in order to facilitate data and information exchange. Coordinator: M. P. McCormick

GRATMAP- Gravity Waves and Turbulence in the Middle Atmosphere Program: The initial aim of GRATMAP is to plan and coordinate measurement programs designed to delineate the global morphology of gravity waves and turbulence, including geographical and seasonal variability. Coordinator: D. C. Fritts

MAC-EPSILON- The project is planned as a case study of middle atmosphere turbulence by means of instrumented sounding rockets, meteorological rockets and ground-based observations. Coordinator: E. V. Thrane

MAC-SINE- Middle Atmosphere Cooperation-Summer in Northern Europe: The project will study the general middle atmospheric circulation and temperature structure as well as waves, turbulence and winds during summer solstice conditions in northern Europe.
Coordinator: E. V. Thrane

MAE- Middle Atmosphere Electrodynamics: The objective of MAE is the coordination of observations accompanied by laboratory experiments, theoretical studies and modeling in order to elucidate basic physical and chemical processes, electric source mechanisms, and the nature and characteristics of electric coupling between the lower and upper atmospheres.
Coordinator: R. A. Goldberg

MASH- Middle Atmosphere of the Southern Hemisphere: MASH is a concerted study of the dynamics of the middle atmosphere in the Southern Hemisphere, with emphasis on interhemispheric differences and connections with the troposphere, using observational data and simulations with numerical models.
Coordinator: A. O'Neill

NIEO- New International Equatorial Observatory: The purpose of NIEO is to plan the establishment of an international equatorial observatory equipped with MST radar, lidar and other facilities to study such phenomena as equatorial waves, tides, gravity waves and turbulence and their contribution to the momentum and heat budgets of the equatorial middle atmosphere.
Coordinator: S. Kato

OZMAP- Observations of, and Sources of the Spatial and Temporal Variability of Ozone in the Middle Atmosphere on Climatological Time Scales: The aim of OZMAP is to coordinate the preparation of daily synoptic maps of global ozone fields that serve as the basis for a three-dimensional ozone climatology.
Coordinator: D. F. Heath

SSIM- Solar Spectral Irradiance Measurements: The purpose of SSIM is to coordinate intercomparisons of solar ultraviolet irradiance measurements, assess the validity of calibration procedures, and propose a definition of a spectral irradiance reference scale for solar ultraviolet measurements.
Coordinator: P. C. Simon

SUPER CAMP- This project is a follow-on of CAMP (Cold Arctic Mesopause Project) and will focus on a study of the middle atmosphere above the northern polar region from 50° to 80° during summer, in the effort to understand latitudinal variability of vertical transport, wave dissipation, and its implications on densities of minor constituents.
Coordinator: E. Kopp

WINE- Winter in Northern Europe Project: The aim of WINE is to coordinate observational studies of the high-latitude European middle atmosphere in winter, leading to an improved understanding of the winter variability structure, motions, and composition.
Coordinator: U. von Zahn

MAP NATIONAL REPRESENTATIVES

Argentina	S. M. Radicella
Australia	K. D. Cole
Belgium	P. C. Simon
Brazil	B. R. Clemesha
Czechoslovakia	J. Lastovicka
Denmark	J. K. Olesen
Finland	C. Sucksdorff
France	M. L. Chanin
FRG	U. von Zahn
GDR	J. Taubenheim
Hungary	P. Bencze
India	Y. V. Somayajulu
Ireland	P. Lynch
Israel	J. Joseph
Italy	G. Fiocco
Japan	S. Kato
New Zealand	G. Fraser
Norway	E. Thrane
South Africa	G. J. Kuhn
Spain	J. O. Cardus
Sri Lanka	P. A. J. Ratnasiri
Sweden	G. Witt
Taiwan	J. K. Chao
UK	L. Thomas
USA	J. D. Mahlman
USSR	E. S. Kazimirovsky

INTERNATIONAL ORGANIZATIONS ADHERING TO MAP AND THEIR REPRESENTATIVES

COSPAR, Committee on Space Research:
A. D. Danilov, J. C. Gille, K. Labitzke

IAGA, International Association of Geomagnetism and Aeronomy:
J. Taubenheim

IAMAP, International Association of Meteorology and Atmospheric Physics:
I. Hirota, R. G. Roper

IAU, International Astronomical Union:
P. C. Simon

IUPAP, International Union of Pure and Applied Physics:
H. S. Ahluwalia

SCAR, Scientific Committee on Antarctic Research:
T. Nagata

SCOSTEP, Scientific Committee on Solar Terrestrial Physics:
S. A. Bowhill, A. H. Manson

URSI, Union Radio Scientifique Internationale:
T. E. VanZandt, R. A. Vincent

WMO, World Meteorological Organization:
R. D. Bojkov

LISTING OF SCIENTISTS BY COUNTRY

ARGENTINA

Cazeneuve, H. A.
 Giraldez, A. E.
 Machado, M. E.
 Padula-Pintos, V.
 Peres, M.
 Pintado, O. I.
 Radicella, S. M.
 Ricciardi, H. J.
 Sahade, J.
 Samatam, E. L.
 Schneider, O.
 Tasso, J. J.
 Von Wuthenau, F. F.

Whitehead, J. D.
 Wild, J. P.
 Wilkinson, P. J.
 Zillman, J. W.

BRAZIL

Abdu, M. A.
 Clemesha, B. R.
 de Mendonca, F.
 Kantor, I.
 Meira, L. G.
 Muralikrishna, P.
 Parada, N. D. J.
 Sahai, Y.
 Sobral, J. H. A.
 Takahashi, H.
 Zamutti, C. F.

AUSTRIA

Bauer, S. J.
 Friedrich, M.
 Riedler, W. W.
 Steinhauser, F.

BELGIUM

Ackerman, M.
 Aerts, E.
 Arijs, E.
 Berger, A.
 Bossy, L. G. A.
 Brasseur, G.
 Crommelynck, D.
 De Muur, D.
 Defrise, P.
 Dogniaux, R.
 Ghazi, A.
 Gerard, J. C.
 Ingels, J. J. T.
 Kockarts, G.
 Koecrelenbergh, A.
 Lemaire, J.
 Lippens, C.
 Melchior, P. J.
 Muller, C.
 Nevejans, D.
 Nicolet, M.
 Pastieis, R.
 Peetersmans, W.
 Sauval, A.-J.
 Scherer, M.
 Simon, P. C.
 Van Bladel, J.
 Van Hemelrijck, E.
 Van Mieghem, J. M.
 Wisemberg, J.
 Zander, R. J.

BULGARIA

Apostalov, E.
 Nesterov, G.
 Panchev, S.
 Ralchovski, T.
 Samardjiev, D.
 Serafimov, K. B.
 Sharov, V.
 Spasov, H.
 Velinov, P.

BURMA

Yin, T.

CANADA

Atkinson, G.
 Belrose, J. S.
 Bojkov, R. D.
 Burrows, R. J.
 Chang, J.-S.
 Christie, A. D.
 Clark, T. A.
 Cogger, L. L.
 Crook, E. D.
 Elias, L.
 Evans, W. F. J.
 Fjallie, E. J.
 Gattinger, R. L.
 Godby, E. A.
 Godson, W. L.
 Goodenough, D. G.
 Hamilton, K.
 Kerwin, L.

BOLIVIA

Mejia, G. P.

Lane-Smith, D.	Yang, J. W.	Axford, W. I.
Llewellyn, E. J.	Ye, S. H.	Bolle, H.-J.
Lowe, R. P.	Yong, J.-W.	Burrows, J. P.
Manson, A. H.	Yu, H. R.	Crutzen, P. J.
Mateer, C.	Zhang, X.-J.	Czechowsky, P.
McConnell, J. C.	Zhang, Qu	Ebel, A.
McEwen, D. J.	Zhen, L.	Egger, J.
Meek, C. E.	Zhu, B. Y.	Ehhalt, D. H.
Morrow, M.	Zhu, G. K.	Fabian, P.
Morton, D. C.	Zhuang, H.	Fischer, H.
Nicholls, R. W.		Fischer, H. M.
Ritchie, C. H.		Fricke, K. H.
Rostoker, G.		Haberland, H.
Schiff, H. I.		Hartkamp, H.
Shepherd, G. G.		Hartmann, G.
Stephenson, D. G.		Haupt, I.
Sullivan, H. M.		Imnester, B.
Vallance-Jones, A.		Kaselau, K. H.
Vupputuni, R. K. R.		Klostermeyer, J.
Walker, J. K.		Kohl, H.
CHINA		
Bao, Z. T.	Bucha, V.	Krankowsky, D.
Chao, C. C.	Bumba, V.	Labitzke, K.
Chen, B.	Ceplecha, Z.	Labs, D.
Chen, G.-F.	Kopecky, M.	Lange-hesse, R. G.
Chen, J.-C.	Lastovicka, J.	Langner, A.
Chen, P.-R.	Lukac, T.	Lubken, F.-J.
Chen, Y.-U.	Ochabova, P.	Lust, R. H. F.
Chou, W.	Pinter, S.	Matthews, W. A.
Cun, C.	Sykora, J.	Meischner, P.
Fang, Z. Z.	Triska, P.	Memmesheimer, M.
Feng, W. U.		Neckel, H.
Go, S. Y.		Offermann, D.
Hao, X.		Otterbein, M.
Huo, H.-H.		Paetzold, H. K.
Kang-Kun, T.		Paschmann, G.
Li, J.	Ebbesen, I. K.	Petzoldt, K.
Li, X.-Q.	Iversen, I. B.	Preister, W.
Liu, Q.	Jensen, V. N.	Queck, H.
Liu, Q.-L.	Jorgensen, T. S.	Raschke, E.
Liu, Z.-X.	Lassen, K.	Rausch, G.
Lu, D.	Laursen, B.	Rawer, K.
Qin, G.-T.	Olesen, J. K.	Reid, I. M.
Qu, Y.-Z.	Peters, B.	Reiter, R.
Shen, C.-S.	Ungstrup, E.	Renger, W.
Tai, H.-S.		Roehrig, O.
Tai, Y.-Q.		Roemer, M.
Tschu, K.-K		Rose, R.
Tso, H.		Ruster, R.
Wang, C.		Schindler, R. N.
Wang, Y.		Schmidt, G.
Wang, Y.-J.		Schmidt, U.
Xu, A.		Schmidtke, G.
Xu, C. F.		Schroder, W.
Xu, R. L.		Schuchardt, K. G. H.
EGYPT		
	Ashour, A. A.	Schurath, U.
ETHIOPIA		
	Gouin, P.	Schwentek, H.
FEDERAL REPUBLIC OF GERMANY		
	Arnold, F.	Seiler, W.
	Attmannspacher, W.	Siebert, M.
		Speth, P.

Stilke, G.
Stuhl, F.
Urbarz, H.
Van der Piepen, H.
Vasyliunas, V. M.
Velten, E.
Volland, H. E.
Von Zahn, U.
Warneck, P.
Warnecke, G.
Wendker, J. H.
West, R. M.
Wibberenz, G.
Widdel, H. U.
Wilhelm, K.
Wirth, J.
Wright, J. W.
Zetzsch, C.

FINLAND

Holopainen, E.
Kataja, E. I.
Oksman, J.
Ranta, H.
Sucksdorff, C. G.
Tiuri, M.
Vallinkoski, M.
Vuorela, L. A.

FRANCE

Aimeaieu, P.
Alcayde, D.
Arie, D.
Barat, J.
Barbe, A.
Barlier, M. F.
Baudry, Mr.
Bauer, P.
Bellet, J.
Bernard, P.
Berrior, A.
Berthelier, J. F.
Bertin, F.
Bessemoulin, P.
Blamont, J. E.
Blanc, M.
Brion, J.
Burke, R. R.
Cadet, D.
Cariolle, D.
Cayla, Mr.
Channin, M.-L.
Chedin, Dr.

Christophe, J.
Clairemidi, Mr.
Crocket, M.
Daumont, D.
de la Boudiniere, J. P.
de la Noe, Prof.
Dessens, J.
Falin, J.
Feliou, J. L.
Ferguson, E. E.
Flaud, J. M.
Fontan, J.
Fouquart, Mr.
Frezal, M. E.
Gendin, R. E.
Girard, A.
Glass, M.
Graner, G.
Hauchecorne, A.
Herse, M.
Hieblot, J.
Higel, B.
Jegou, J. P.
Jouve, P.
Kofman, W.
Ladobordovsky, O.
Lambert, G.
Lebras, Dr.
Lenoble, J.
Lesclaux, R.
Loitiere, B.
Louisnard, N.
Malicet, J.
Marche, P.
Marenco, A.
Mascart, Mr.
Massenbeuf, M.
Megie, G.
Melieres, M. A.
Millier, F.
Moreels, G.
Morel, P.
Moret-Bailly, J.
Nicolet, M.
Niemirowicz, Z.
Pelon, J.
Petitdidier, M.
Pick, M.
Pillet, G.
Pommereau, J.-P.
Raisbeck, G. M.
Renoux, A.
Rigaud, P.
Rochas, Dr.
Sheldon, W. R.
Sidi, C.
Simon, P. A.
Teitelbaum, H.
Testud, J.

Thuillier, G.
Vassy, A. T.
Vernin, J.
Vial, F.
Vidal-Madjar, Dr.
Voge, M. J.
Waldteufel, P.
Weill, G. M.

GERMAN DEMOCRATIC REPUBLIC

Bischoff, K.
Bohme, W.
Cossart, G. V.
Entzian, G.
Feister, U.
Glode, P.
Greisiger, K. M.
Grieger, N.
Knuth, R.
Krueger, A. J.
Kruger, W.
Schminder, R.
Schmitz, G.
Sonnenmann, G.
Spankuch, D.
Sprenger, K.
Taubenheim, J.
Wagner, C. U.
Zimmerman, G.

GHANA

Bekoe, D. A.
May, A. N.

GREECE

Repapis, C. C.
Xanthakis, J.
Zerefos, C. S.

HONG KONG

Ho, C.
Lyon, A. J.

HUNGARY

Bencze, P.
Dezso, L.

Gombosi, T. I.	Devarajan, M.	Parabrahman, M.
Major, G.	Devasia, C. V.	Pathak, P. N.
Marcz, F.	Dhawan, S.	Pisharoty, P. R.
Tanczer, T.	Dolas, P. M.	Prakash, S.
	Dutta, R. K.	Prasad, B. S. N.
	Dutta, S. K.	Purkait, N. M.
	Gadgil, S.	Qasim, S. Z.
ICELAND	Garg, S. C.	Qureshi, M. N.
	Ghosh, B.	Radhakrishnan, V.
Saemunsson, Th.	Ghosh, S. N.	Raghavarao, R.
	Gowarikar, V. R.	Rai, D. K.
	Gupta, R. K.	Rai, R. K.
	Gupta, S. P.	Raja, J.
INDIA	Gurm, H. S.	Rajamani, S.
	Hariharan, T. A.	Rajan, Y. S.
Acharya, B. L.	Hingane, L. S.	Rajaram, R.
Agashe, V. V.	Indria, Miss	Rajaratnam, P.
Agrawal, S. P.	Iyer, K. N.	Raja Rao, K. S.
Ahmed, Md. I.	Jain, A. R.	Rakshit, D. K.
Ananthakrishnan, R.	Jain, S. L.	Ramachandra Rao, B.
Ananthasayanan, M. R.	Jain, V. C.	Ramakrishna, S.
Angreji, P. J.	Jani, K. G.	Ramana, K. V. V.
Appu, K. S.	Jayaraman, A.	Ramana Murty, Bh. V.
Asnani, G. C.	Jayaraman, P. N.	Ramana Murty, Y. V.
Bahi, A. C.	Kasturirangan, K.	Ramana than, K. R.
Balachandra Swamy, A.	Kesnavamurthy, K. N.	Rao, C. N. R.
Bali, A.	Khoshoo, T. N.	Rao, B. C. N.
Bandyopadhyay, P.	Kotadia, K. M.	Rao, D. R. K.
Banerjee, A.	Krishnamurthy, B. V.	Rao, M. N. M.
Beig, G.	Krishnamurthy, K.	Rao, N. P. R.
Bhatnagar, A.	Kulshrestha, S. M.	Rao, P. B.
Bhatnagar, S. P.	Kumar, S.	Rao, P. S. K.
Bhattacharya, J. C.	Kundapurkar, R. U.	Rao, U. R.
Bhattacharya, K.	Kumcu, N.	Rao, V. R.
Bhavasar, P. D.	Kurup, M. R.	Rastogi, R. G.
Bhonsle, R. V.	Lakshmi, K. R.	Razdan, H.
Biswas, S.	Lal, D.	Reddi, C. R.
Chakrabarty, D. K.	Lavakare, P. J.	Reddi, R. R.
Chakrabarty, P.	Mahajan, K. K.	Reddy, B. M.
Chakravarty, S. C.	Mangain, B. N.	Reddy, C. A.
Chandramma, S.	Mani, A.	Reddy, R. S.
Chandrasekhar, S.	Menon, M. G. K.	Redkar, R. T.
Chatterjee, K.	Mitra, A. P.	Revankar, C. P.
Damle, S. V.	Mitra, S. N.	Saha, B.
Daniel, R. R.	Modayil, M. A.	Sampath, S.
Das, I. M. L	Mohan, G.	Sarkar, R. P.
Das, P. K.	Mohanty, S.	Sasi, M. N.
Dasgupta, A. K.	Mukherjee, B. K.	Satyam, V.
Dasgupta, M. K.	Murty, A. S. R.	Sehra, P. S.
Datta, J.	Nagpal, O. P.	Sen, A. K.
De, S. S.	Narasimha, R.	Sengupta, K.
Deeksnatulu, B. L.	Narayanan, A.	Seshadri, N.
Degaonkar, S. S.	Narayanan, M. S.	Sesnagiri, N.
Deshpande, B. S.	Narayanan, V.	Seshmani, R.
Deshpande, M. R.	Nath, N.	Seshan, T. N.
Deshpande, S. D.	Nerurkar, D. W.	Sethuraman, R.
Devanarayanan, S.	Pandya, S. P.	Setty, C. S. G. K.
Devara, P. C. S.	Pant, N.	Sharma, M.

Sharma, M. C.	ITALY	Kikuchi, T.
Sharma, R. P.		Kimpara, A.
Sharma, V. N.		Kitagawa, N.
Shirvaikar, V. V.		Kitamura, M.
Sikka, D. R.		Kitamura, T. I.
Singh, M. P.		Kodaira, N.
Singh, R. N.		Kodera, K.
Sinha, M. C.		Kohno, T.
Somayaji, T. S. N.		Koide, T.
Somayajulu, V. V.		Koizumi, T.
Somayajulu, Y. V.		Komabayashi, M.
Sreedharan, C. R.		Kuwashima, M.
Srivastava, G. P.		Maeda, K.
Subbaraya, B. H.		Maeda, R.
Subramanyam, C. V.		Makide, Y.
Subramanyam, P.		Marubasni, K.
Tillu, A. D.		Matsuura, T.
Tiwari, M. N.		Matsuura, A.
Varshneya, N. C.		Meek, J. H.
Verma, S. D.	JAPAN	Misaki, M.
Vernekar, K. G.		Mori, H.
Vijay Vergia, S. K.		Muraoka, Y.
Viswanathan, G.		Nagano, I.
Yashpal, Prof.		Nagata, T.
Zalpuri, K. S.		Nakamura, J.
INDONESIA		Nakamura, K.
Karjoto, S.		Nakamura, M.
Soegijo, J.		Obayashi, T.
IRAN		Ogawa, T.
Zomorrodian, H.		Ogawa, T.
IRELAND		Otawa, T.
Bates, J. R.		Ogawa, T.
Best, G. T.		Ohshio, M.
Burke, T. P.		Okano, S.
Greer, R. G. H.		Okuda, M.
Lynch, P.		Okuzawa, T.
Mathews, R. O.		Ondoh, T.
McKenna-Lawlor, S.		Ono, A.
Roddy, A.		Oshima, H.
Smith, R. W.		Ouchi, C.
ISRAEL		Sagawa, E.
Eviatar, A.		Sagisaka, S.
Joseph, J. H.		Saito, N.
Ne'eman, Y.		Saito, N.
Otterman, J.		Saito, T.
Pardo, A. C.		Saito, T.
		Sanga, N. K.
		Sato, T.
		Sato, T.
		Sawada, R.
		Sekihara, K.
		Shibata, T.
		Shibata, T.
		Shimizu, I.
		Shimizu, M.
		Shiraki, M.
		Shitamichi, M.
		Sofue, Y.
		Sugiura, M.

Tahira, M.	NIGERIA	PORTUGAL
Takagi, M.		Figueira, M. F.
Takahashi, H.		Silva de Souza, A.
Takenoshita, Y.		
Takeuchi, N.	Adedoyin, J. A.	
Tanaka, H.	Kolawole, L. B.	
Tanaka, M.	Oladiran, E. O.	
Tominaga, T.	Oni, C. E. F.	
Tsuda, T.		
Tsueda, K.		PUERTO RICO
Tsutsui, M.		
Uchino, C.	NORWAY	Ierkic, H. M.
Wada, M.	Brekke, A.	Tepley, C. A.
Wakai, N.	Gundersen, A.	
Wakasugi, K.	Hall, C. M.	
Washimi, H.	Henrikson, K.	RUMANIA
Watanabe, T.	Holtet, J. A.	
Yamaguchi, Y.	Kvifte, G.	Doneaud, A.
Yamamoto, G.	Larsen, S. H. H.	Oppisch, N.
Yamamoto, R.	Soraas, O. F.	
Yamanaka, M. D.	Thrane, E. V.	
Yonezawa, T.	Tretall, H.	SOUTH AFRICA
KOREA	PAKISTAN	Gledhill, J. A.
Pak, B. S.	Ahmadc, M. S.	Heymann, G.
	Ahmed, K. M.	Konig, P. J.
	Gilani, S. I.	Kuhn, G. J.
	Jafri, S. A.	Louw, C. W.
	Majid, A.	Malan, D. O. G.
KUWAIT		Stoker, P. H.
		Taljaard, J. J.
Sayigh, A. A. N.		Van der Westhuizen, A. O.
		Vice, R. W.
		Walker, A. D. M.
MALAYSIA	PERU	SPAIN
Ilyas, M.	Lagos, P.	
	Mabres, A.	Alberca, L. F.
	Martinez, R. M.	Alonso, S. P.
	Woodman, R. F.	Battaner, E.
MEXICO	PHILIPPINES	Cardus, J. O.
Gall, R.	Badillo, V. L.	Cisneros, J. M.
		de Alba, A. S.
		de Azcarraga, A.
		de la Morena, B. A.
		de Miguel, L.
NEW ZEALAND	POLAND	Gil, M.
Dowden, R. L.	Dymek, M.	Gomez, J. C.
Fraser, G. J.	Fiszdon, W.	Hidalgo, M. A.
Ireland, W.	Grzedzinski, S.	Ibanez, J.
Keys, J. G.	Losiowa, A.	Lopez, P. M.
McEwan, M. J.	Michalczewski, J.	Rodrigo, R.
Von Biel, H. A.	Suryjak, W.	Sagredo, J. L.
Wratt, D. S.	Walczewski, J.	Satrustegui, J.
	Wernik, A. W.	
		SRI LANKA
		Ratnasiri, P. A. J.

SUDAN	TAIWAN	Jones, T. B.
Paramena, J. A.	Chang, P. Y.-F.	Kaiser, T. R.
	Chao, J. K.	Kersley, L.
	Fu, I. J.	Key, P. J.
	Hong, S.-S.	King, J. W.
SWEDEN	Huang, Y.-N.	King-Hele, D. G.
Bjorn, L.	Jou, B. J.	Kingsley, S. P.
Bjurstedt, H.	Juan, V. C.	Lovelock, J. E.
Bostrom, R.	Lee, Y.-P.	Massey, H.
Fal thammar, C.-G.	Lin, P.-L.	McIntosh, D. H.
Helger, A.	Ni, W.-T.	McIntyre, M. E.
Hultqvist, B. K. G.	Tran, A.	Miller, D. E.
Jonsson, G.	Tsay, C.-Y.	Muller, H. G.
Lindblad, B. A.		Murgatroyd, R. J.
Lundin, A.	UNITED KINGDOM	O'Neill, A.
Lundin, R.	Alcock, R. K.	Palmer, T. N.
Martin-Lof, J.	Allam, R. J.	Payne, R. M.
Ottersten, H.	Andrews, D. G.	Pearce, R. P.
Rottger, J.	Argent, C. R.	Piggott, W. R.
Stoffregen, W.	Barnett, J. J.	Pyle, J. A.
Westerlund, S.	Beynon, G.	Ramsden, D.
Witt, G.	Bowthorpe, M.	Rees, D.
Zetterquist, P.	Bradsell, R. H.	Rees, J. A.
	Brookes, C. J.	Rishbeth, H.
SWITZERLAND	Brown, G. M.	Rodger, A. S.
Balsiger, H.	Campbell, P. H. M.	Rodgers, C. D.
Fluckiger, E.	Charnock, H.	Rothwell, P. M.
Frohlich, C.	Clough, S. A.	Rycroft, M. J.
Haefner, H.	Cowley, S. W. H.	Schlapp, D. M.
Hogger, B.	Crane, A. J.	Scott, A. F. D.
Junod, A.	Creer, K. M.	Smith, A. J.
Kopp, E.	Croom, D. L.	Smith, D.
Kunz, K.	Davies, D. R.	Smith, P. A.
Muller, E. A.	Dickinson, P. H. G.	Southwood, D. S.
Obasi, G. O. P.	Dudaney, J. R.	Spracklen, C. T.
Schanda, E.	Eckman, R.	Stewart, K. H.
Sesiano, J.	Eggleton, A. E. J.	Taylor, F. W.
Sundararaman, N.	Farmer, A.	Thomas, L.
Waldmeier, M.	Gabriel, A. H.	Thrush, B. A.
	Gadd, A. J.	Twiddy, N. D.
THE NETHERLANDS	Gadsden, M.	Vaughn, G.
de Jager, C.	Gardiner, B. G.	Vyas, N. M.
Fokker, A. D.	Goldsmith, P.	Walshaw, C. D.
Guicherit, R.	Green, J. S. A.	Wayne, R. P.
Kelder, H.	Groves, G. V.	Williams, E. R.
Page, D. E.	Hali, A. J.	Williamson, E. J.
Schuurmans, C. J. E.	Hargreaves, J. K.	Woods, P.
Stumpers, F. L. M.	Harries, J. E.	Wright, P. C.
Svestka, Z.	Harwood, R. S.	UNITED STATES
Van Sabben, D.	Hemmen, G. E.	Abel, P.
	Hide, H.	Abreu, V. J.
	Houghton, J. T.	Adams, G. W.
	Jarvis, M. J.	Ahluwalia, H. S.
		Aikin, A. C.

Akasofu, S.-I.
 Allario, F.
 Allen, J. H.
 Allen, M.
 Alpert, J. C.
 Alyea, F. N.
 Ames, D. P.
 Anderson, J. H.
 Anderson, L. G.
 Anderson, R. V.
 Angell, J. K.
 Angoine, R. J.
 Arking, A.
 Atlas, D.
 Avery, S. K.
 Bair, E. J.
 Baker, D. N.
 Baker, K. D.
 Balsley, B. B.
 Bangeen, W.
 Bandy, A. R.
 Banks, P. M.
 Barcus, J. R.
 Baron, M. J.
 Barr, N. M.
 Bauer, E.
 Beasley, W.
 Behnke, R.
 Belmont, A. D.
 Benesch, W.
 Berning, W. W.
 Bevilabqua, R. M.
 Bibl, K.
 Bierley, E.
 Biondi, M. A.
 Black, S.
 Blackshear, W. T.
 Blake, J. B.
 Blank, C. A.
 Blass, W. E.
 Block, B. P.
 Bortner, M. H.
 Borucki, W. J.
 Bowhill, S. A.
 Brasunas, J. C.
 Bridger, A. F. C.
 Broadfoot, A. L.
 Broderick, A. J.
 Brosweick, A. J.
 Browell, E. V.
 Brown, N. B.
 Brueckner, G. E.
 Buchau, J.
 Bufton, J.
 Buhmann, R. W.
 Burke, H. K.
 Callis, L. B.
 Campbell, M. J.
 Campbell, W. H.
 Carlson, H.
 Carlson, R. W.
 Carpenter, L. A.
 Carrigan, R. A.
 Carter, D. A.
 Carter, W. D.
 Cartwright, E. C.
 Castleman, A. W.
 Cauffman, D. P.
 Chahine, M. T.
 Chamberlain, J. W.
 Chameides, W.
 Champion, K. S. W.
 Chan, R.
 Chandra, S.
 Chang, J.-S.
 Chang, J. S.
 Chang, N. J.
 Chao, W. C.
 Chen, H. S.
 Chen, T. C.
 Chervin, R. M.
 Chou, C. C.
 Cicerone, R. J.
 Clancy, T.
 Clark, J. H. E.
 Clark, K. C.
 Clark, R. R.
 Coakley, J. A.
 Cockayne, J. E.
 Coffey, M. T.
 Cormier, R. V.
 Coroniti, S. C.
 Crain, C. M.
 Craine, L. B.
 Crane, R. K.
 Cress, T. S.
 Croft, T. A.
 Cross, W. F.
 Cunnold, D. M.
 Dalgarno, A.
 Danielson, E. F.
 de Bettencourt, J. T.
 de la Beaujardiere, O.
 Deepak, A.
 Delgreco, F. P.
 Dening, W.
 Dessler, A. J.
 Dewan, E. M.
 Dicke, R. H.
 Dickinson, L. G.
 Dickinson, R. E.
 Dodge, J. C.
 Donahue, T. M.
 Donn, W. L.
 Donnelly, R. F.
 Drotman, D. P.
 Dryer, M.
 Dubin, M.
 Duce, R. A.
 Dutkiewicz, V. A.
 Dvoskin, N.
 Dyer, E. R.
 Eastman, T. E.
 Eberstein, I.
 Ecklund, W. L.
 Eddy, J.
 Edgar, B. C.
 Edwards, B.
 Elson, L.
 Evans, J. V.
 Fahey, D. W.
 Falconer, P.
 Faris, F. E.
 Farley, D. T.
 Farmer, C. B.
 Fehsenfeld, F. C.
 Fein, R. S.
 Feldman, P. D.
 Feldman, W.
 Fels, S. B.
 Ferraro, A. J.
 Feynman, J. F.
 Finger, F. G.
 Finlayson, B. J.
 Fischer, S. D.
 Fischer, W. H.
 Fleagle, R. G.
 Follin, J. W.
 Forbes, J. M.
 Foreman, K. M.
 Foster, J. C.
 Fox, J.
 Fox, K.
 Francis, J. K.
 Francis, S.
 Francisco, P. J. V.
 Frederick, J. E.
 Freeman, D. E.
 Freier, G. D.
 Friedman, H.
 Friend, J. P.
 Fritts, D. C.
 Fritz, M.
 Fritz, S.
 Fromuth, A. G.
 Gage, K. S.
 Gal-Chen, T.
 Gallagher, C. C.
 Gallego, J. M.
 Gamman, R. H.
 Gan, C. Y.
 Ganguly, S.
 Garcia, R. R.
 Gardner, C. S.
 Garrett, H.
 Gathman, S.
 Gay, B. W.

Geisler, J. E.	Horak, H. G.	Larsen, M. F.
Gelinas, R. J.	Horan, D. M.	Laurie, V. J.
Geller, M. A.	Hornstein, J.	Laver, J. D.
Gelman, M. E.	Hsieh, K. C.	Lazarus, A. L.
Gerstl, S. A. W.	Hsu, C.-P. F.	Lean, J.
Gille, J. C.	Hudson, R. D.	Ledley, B.
Gnanalingam, S.	Hung, R. J.	Lee, H. S.
Goldberg, R. A.	Hunsucker, R.	Lehman, R. L.
Golomb, D.	Hunt, D.	Leifer, R.
Good, R. E.	Hunten, D. M.	Leovy, C. B.
Goodman, J. M.	Huntress, W. T.	Levine, D. M.
Goody, R. M.	Husain, L.	Levis, C. A.
Gordon, W. E.	Intriligator, D. S.	Levy, H.
Gossard, E. E.	Ion, H.	Lewis, L. J.
Grams, G. W.	Jackman, C. H.	Lindzen, R.
Green, A. E. S.	Jackson, E. B.	Linevsky, M. J.
Green, J. L.	Japar, S.	Linson, L. M.
Greenberg, L.	Johnson, D. L.	Little, C. G.
Grobecker, A. J.	Johnson, D. W.	Liu, C. H.
Grose, W. L.	Johnson, F. S.	Liu, S.
Guberman, S. L.	Johnson, H. S.	Liu, S. C.
Gurney, E. S.	Jones, L. W.	London, J.
Guthals, P. R.	Justus, C. G.	Lowenstein, M.
Guy, V. F.	Kasahara, A.	Luhmann, J. G.
Hagfors, T.	Kassner, J. L.	Luther, F. M.
Hake, R. D.	Kaufman, F.	Machta, L.
Hale, L. C.	Keating, G. M.	MacQueen, R. M.
Hamlin, D. A.	Keitz, E. L.	Madden, R. P.
Hanson, J. E.	Kelley, M.	Maeda, K.
Hanson, W. B.	Kelley, P. L.	Mahlman, J. D.
Hanst, P. L.	Kelly, F. J.	Mak, M. K.
Hard, T. M.	Keneshea, T. J.	Manka, R.
Harris, I.	Kennealy, J. P.	Mankin, W. G.
Hartman, D. L.	Kent, G.	Mantas, G. P.
Hauck, F.	Kerlin, J.	Markson, R.
Heaps, M. G.	Khalil, M. A. K.	Marlow, W. H.
Heath, D. F.	Kim, J. S.	Maroulis, P.
Heckman, G.	Kitrosser, D. F.	Masley, A. J.
Heidt, L.	Klainer, S. M.	Mason, C. J.
Herder, C. G.	Kleimann, D. E.	Mathews, J. D.
Herget, W. F.	Klenk, K. F.	Mathews, D. L.
Hernandez, G.	Koerner, J. P.	Mauersberger, K.
Heroux, L.	Kofsky, I. L.	Maynard, N. C.
Hersnfield, D. M.	Kreiss, W. T.	McAfee, J. K.
Hildner, E.	Krises, W. D.	McClatchey, R. A.
Hill, R. D.	Krueger, A. J.	McCormac, B. M.
Hilsenrath, E.	Krull, N.	McCormick, M. P.
Hinteregger, H. E.	Kuhn, W. R.	McCubbin, T. K.
Hinton, B.	Kukla, G.	McDermid, I. S.
Hitchman, M. H.	Kulgein, N. G.	McElroy, M. B.
Hixon, B. R.	Kunde, V. G.	McIlrath, T. J.
Hogey, W.	Kundu, M. R.	McKinnon, J. A.
Hoffman, J. H.	Kuriyan, J. G.	McWilliams, A. S.
Hofmann, D. J.	Kurylo, M.	Mecherikunnel, A. T.
Hogg, D. C.	Kutzback, J. E.	Megill, L. R.
Holden, D. N.	Lally, V. E.	Mehta, N.
Holton, J. R.	Lanzerotti, L. J.	Mentall, J. E.
Holzworth, R.	Laporte, D.	Menzies, R. T.
Hood, L. L.	Larabee, J.	Meriwether, J. W.

Miles, T.
 Miller, A. J.
 Millman, G. H.
 Mintz, Y.
 Mohler, O. C.
 Mohnen, V. A.
 Molina, M. J.
 Mooradian, A.
 Mozer, F. S.
 Murcray, D. G.
 Nagatani, R. M.
 Nagy, A. F.
 Najita, K.
 Nakada, M. P.
 Nelson, H. F.
 Ness, N. F.
 Newell, D. T.
 Newell, R. E.
 Newman, P. A.
 Newton, G. P.
 Niles, F. E.
 O'Connor, B. H.
 Olivero, J. J.
 Olsen, R. O.
 Olson, D. E.
 Olson, W. P.
 Oran, E. S.
 Ott, E. J.
 Ott, W. R.
 Page, W. A.
 Pagni, P. J.
 Park, C. G.
 Parkinson, W. H.
 Parrish, A.
 Parungo, F.
 Paulson, J. F.
 Peacock, D. S.
 Pearson, L.
 Pepin, T. J.
 Perliski, L. M.
 Perry, J.
 Peterson, A. W.
 Peterson, J.
 Peterson, J. R.
 Peterson, V.
 Philbrick, C. R.
 Pitts, B. J. F.
 Planet, W. G.
 Plummer, P. M.
 Podalske, J.
 Polk, C.
 Ponnampерuma, C.
 Poppoff, I. G.
 Potemra, T. A.
 Poultney, S.
 Prasad, S. S.
 Prinn, R. G.
 Quiroz, R. S.
 Raitt, W. J.
 Ramanthan, V.
 Randel, B.
 Randhawa, J. S.
 Rasool, S. I.
 Rastogi, P. K.
 Ratkowski, A.
 Ravishankara, A. R.
 Ray, G. W.
 Reagan, J. B.
 Reber, C.
 Reck, R. A.
 Rees, M. F.
 Reid, G. C.
 Reinisch, B. W.
 Reiter, E. R.
 Remsberg, E. E.
 Revelle, D. O.
 Richmond, A. D.
 Richter, J. H.
 Riegel, C. A.
 Rind, D.
 Robbins, D. E.
 Robertson, D. C.
 Roble, R. G.
 Rodriguez, P.
 Roederer, J. G.
 Roger, C.
 Rogers, J.
 Rood, R. B.
 Roper, R. G.
 Ropp, C. A.
 Rosen, J. M.
 Rosenberg, T. J.
 Rossi, L.
 Rottman, G. J.
 Rowland, F. S.
 Ruhnke, L. H.
 Runde, R.
 Rusch, D. W.
 Russell, C. T.
 Russell, J. M.
 Russell, P. B.
 Rust, D. M.
 Ruttenberg, S.
 Salah, J. E.
 Salby, M. L.
 Sanford, M. T.
 Sarachik, E. S.
 Sartor, C. D.
 Scarf, F. L.
 Schaas, L.
 Schaffner, S.
 Scherrer, P. H.
 Scheucher, K.
 Schmeiterekopf, A.
 Schmerling, E. R.
 Schmidlin, F. J.
 Schoeberl, M. R.
 Schultz, L. D.
 Schwab, J. J.
 Schwartz, P. R.
 Schwarzkopf, M. D.
 Scott, S.
 Sears, R. D.
 Sechrist, C. F., Jr.
 Sechrist, F. S.
 Sedlacek, W. A.
 Seliga, T. A.
 Sellers, B
 Settle, M.
 Shakun, W.
 Shapley, A. H.
 Sharp, W. E.
 Shaw, J. H.
 Shea, M. A.
 Shettle, E. P.
 Shimabukuro, F. I.
 Shimazaki, T.
 Sica, R. J.
 Silverman, S.
 Sinclair, R. W.
 Singer, F. S.
 Singh, J. J.
 Sipler, D. P.
 Sirem, J. C.
 Slanger, T.
 Smith, A. K.
 Smith, H. J. P.
 Smith, L. G.
 Smith, M. A. H.
 Smith, P. L.
 Smith, S. A.
 Soliz, P.
 Solomon, S.
 Spjeldvik, W. N.
 Srivastava, R. C.
 Stair, A. T.
 Stanford, J. L.
 Stanton, B. W.
 Starr, W. L.
 Stedman, D. H.
 Stegen, G. R.
 Stergis, C. G.
 Streit, G. E.
 Stevens, D. E.
 Stewart, I.
 Stippich, S.
 Stokes, R. A.
 Stolarski, R. S.
 Stone, J.
 Strobel, D. F.
 Sullivan, T. J.
 Suomi, V. E.
 Swenson, G. R.
 Swider, W.
 Szajna, E. F.
 Szuszczewicz, E. P.
 Takano, K.

Tandberg-Hansen, E.	Whitten, R. C.	Jammet, H.
Taylor, R. C.	Wickwar, V. B.	Karimov, K. A.
Tefft, J. D.	Wilhelmi, A. J.	Karol, I. L.
Thomas, G. E.	Wilkerison, T. D.	Kashcheev, B. L.
Thomas, R. J.	Williams, D. J.	Kazimirovsky, E. S.
Thorne, R. M.	Williams, S.	Kharin, E. P.
Tilford, S. G.	Williamson, P. R.	Klimov, N. N.
Tinsley, B. A.	Wilson, J. C.	Kondratyev, K. Ya.
Tobias, C. A.	Wilson, W. J.	Kontarev, G. R.
Toman, K.	Wittles, J. J.	Koshelkov, Yu. P.
Torr, D. G.	Wofsy, S. C.	Krassovsky, V. I.
Torres, A. L.	Woods, R. O.	Marov, M. Ya.
Tsou, J. J.	Worrest, R. C.	Megrelishvili, T. G.
Tuck, A. F.	Wu, C. H.	Migulin, V. V.
Tuan, T. F.	Wu, S.-T.	Morachevsky, V. G.
Turco, R. P.	Wuebbles, D. J.	Mustel, E. R.
Turner, R. E.	Wyntjes, G.	Nikolsky, P. A.
Twitcheff, P. F.	Yates, H. W.	Obridko, V. N.
Uplinger, W. G.	Yeh, K. C.	Obukhov, A. M.
Vanasse, G. A.	Yencha, A. J.	Pakhomov, L. A.
Van Horn, J. C.	Young, D. T.	Poloskov, S. M.
VanZandt, T. E.	Yue, G.	Portniagin, Yu. I.
Vaughn, W. W.	Yuen, H. C.	Rakipova, L. R.
Vedder, J. F.	Yuen, P. C.	Rapaport, Z. Ts.
Venkateswaran, S. V.	Yung, Y.	Raspopov, O. M.
Venne, D. E.	Zhu, X.	Sagdeev, R.
Vette, J. I.	Zimmerman, S. P.	Shetov, N. N.
Viggiani, A.	Zinn, J.	Slved, G. M.
Vondrak, R.		Somov, B. V.
Wakelyn, N. T.		Teptin, G. M.
Walt, M.		Toroshelidze, T. I.
Walterscheid, R. L.		Troitskaya, V. A.
Walton, J. J.		Ustinov, E. A.
Wang, J. F.	USSR	Vaisberg, O. L.
Wang, P.-H.	Alexandrov, L. A.	Vinnichenko, N. K.
Wang, W.-C.	Avaste, O.	Viskov, V. V.
Waterman, A. T.	Avdyushin, S.	Willman, Ch. I.
Waters, J.	Avisuk, G. A.	Zadorozhny, A. M.
Watkins, B. J.	Benediktov, E. A.	Zhulin, I. A.
Watson, R.	Bragin, Yu. A.	
Watt, A. D.	Danilov, A. D.	
Wei, M.-Y.	Fedynski, A. B.	
Weinstock, E. M.	Feldstein, Ya. I.	
Weinstock, J.	Fishkova, L. M.	
Weller, L.	Galperin, Yu. I.	
Wellis, M. B.	Grechko, G. M.	ZAMBIA
Wendland, W.	Imshenetsky, A. A.	
Wescott, E. M.	Ivanov-Kholodny, G. S.	Chipembele, F. M.
White, O. R.	Izakov, M. N.	

ALPHABETICAL INDEX AND ADDRESSES OF SCIENTISTS

ABDU, Dr. M. A., Instituto de Pesquisas Espaciais, Caixa Postal 515, Sao Jose Dos Campos, 12200 Sao Paulo, Brazil

ABEL, Dr. P., National Academy of Sciences, 2101 Constitution Avenue, N.W., Washington, DC 20418 USA

ABREU, Dr. V. J., University of Michigan, 2455 Hayward, Ann Arbor, MI 48109 USA

ACHARYA, Mr. B. L., School of Basic Science and Humanities, Udaipur University, Udaipur 313001, India

ACKERMAN, Dr. M., Institut d'Aeronomie Spatiale de Belgique, Avenue Circulaire, 3, B-1180 Brussels, Belgium

ADAMS, Dr. G. W., Center for Atmospheric and Space Sciences, Utah State University, Logan, UT 84321 USA

ADEDYOYIN, Dr. J. A., Department of Physics, University of Ibadan, Ibadan, Nigeria

AERTS, Dr. E., Belgian Institute for Space Aeronomy, Ringlaan, 3, B-1180, Brussels, Belgium

AGASHE, Dr. V. V., Department of Physics, University of Poona, Poona 411007, India

AGRAWAL, Dr. S. P., Vikram Space Physics Centre, APS University, Rewa (MP) 486003, India

AHMADC, Dr. M. S., Space Science and Research, Sparcent, P. O. Box 8402, Karachi 32, Pakistan

AHLUWALIA, Prof. H. S., Physics Department, University of New Mexico, Albuquerque, New Mexico 87131 USA

AHMED, Dr. K. M., Space and Upper Atmospheric Research Committee, P. O. Box 8402, Karachi 32, Pakistan

AHMED, Dr. Md. I., Department of Physics, Andhra University, Waltair 530003, India

AIKIN, Dr. A. C., Code 616, NASA Goddard Space Flight Center, Greenbelt, MD 20771 USA

AIMEDIEU, Dr. P., Service d'Aeronomie, CNRS, B.P. No. 3, 91370 Verrieres-le-Buisson, France

AKASOFU, Dr. S.-I., Geophysical Institute, University of Alaska, Fairbanks, AK 99775-0800 USA

ALBERCA, Dr. L. F., Observatorio del Ebro, Roquetes (Tarragona), Spain

ALCAYDE, Dr. D., CESR, CNRS, Avenue du Colonel Roche, 31029 Toulouse Cedex, France

ALCOCK, Capt. R. K., Director of Naval Ocean and Meteorology, Old War Office Building, Whitehead, London SW1A 2EU, United Kingdom

ALEXANDROV, Dr. L. A., GUGMS, Pavlika Morozova 12, Moscow, USSR

ALLAM, Dr. R. J., Meteorological Office, London Road, Bracknell, Berks, United Kingdom

ALLARIO, Dr. F., NASA Langley Research Center, Mail Stop 476, Hampton, VA 23665 USA

ALLEN, Mr. J. H., E/GC2, National Oceanic and Atmospheric Administration, Environmental Data and Information Service, 325 Broadway, Boulder, CO 80303 USA

ALLEN, Dr. M., Planetary Science 170-25, California Institute of Technology, Pasadena, CA 91125 USA

ALONSO, Dr. S. P., CONIE, Pas del Pintor Rosales 34, Apartado de Correos 8350, Madrid 8, Spain

ALPERT, Dr. J. C., Code 616, NASA Goddard Space Flight Center, Greenbelt, MD 20771 USA

ALYEA, Dr. F. N., School of Geophysical Sciences, Georgia Institute of Technology, Atlanta, GA 30332 USA

AMES, Dr. D. P., Department H220/Building 110, McDonnell Douglas Research Laboratories, P. O. Box 516, St. Louis, MO 63166 USA

ANANTHAKRISHNAN, Dr. R., Indian Institute of Tropical Meteorology, Ramdurg House, University Road, Pune 411005, India

ANANTHASAYANAM, Dr. M. R., Department of Aeronautical Engineering, Indian Institute of Science, Bangalore 560012, India

ANDERSON, Prof. J. H., Center for Earth and Planetary Physics, Harvard University, Pierce Hall, 29 Oxford Street, Cambridge, MA 02138 USA

ANDERSON, Dr. L. G., Division of Natural and Physical Science, University of Colorado, 1100 14th Street, Denver, CO 80202

ANDERSON, Dr. R. V., Code 4325, Naval Research Laboratory, 4555 Overlook Avenue, Washington, DC 20375 USA

ANDREWS, Dr. D. G., Department of Atmospheric Physics, Clarendon Laboratory, Parks Road, Oxford OX1 3PU, United Kingdom

ANGELL, Dr. J. K., Air resources Laboratory, National Oceanic and Atmospheric Administration, Granax Building, 8060 13th Street, Silver Spring, MD 20910 USA

ANGOINE, Dr. R. J., Astronomy Department, San Diego State University, San Diego, CA 92182 USA

ANGREJI, Prof. P. J., Astronomical Observatory, Vadhshala, Ahmedabad, India

APOSTOLOV, Dr. E., Geophysical Institute, Bulgarian Academy of Sciences, 6 Moskovska Street, Sofia 1000, Bulgaria

APPU, Mr. K. S., MET-TERLS, Vikram Sarabhai Space Centre, ISRO P.O., Trivandrum 695022, India

ARAKI, Dr. T., WDC-C2 for Geomagnetism, Faculty of Science, Kyoto University, Oiwake-cho, Kitashirakawa, Sakyo-ku, Kyoto 606, Japan

ARGENT, Mr. C. R., The Royal Society, 6 Carlton House Terrace, London SW1Y 5AG, United Kingdom

ARIE, Dr. D., Laboratoire d'Infrarouge, Universite Paris-Sud, Bat 350, 91405 Orsay, France

ARIJS, Dr. E., Belgian Institute for Space Aeronomy, Ringlaan, 3, B-1180 Brussels, Belgium

ARKING, Dr. A., Code 911, NASA Goddard Space Flight Center, Greenbelt, MD 20771 USA

ARMSTRONG, Dr. E. B., 5 Saunders Street, Narrabri N.S.W. 2390, Australia

ARNOLD, Dr. F., Max-Planck-Institut, P. O. Box 103980, Heidelberg 6900, Federal Republic of Germany

ASHOUR, Prof. A. A., Faculty of Science, Cairo University, Cairo, Egypt

ASNANI, Prof. G. C., Theoretical Studies Division, Indian Institute of Tropical Meteorology, Pune 411005, India

ASO, Dr. T., Department of Electrical Engineering, Faculty of Engineering, Kyoto University, Kyoto 606, Japan

ATKINSON, Dr. G., Canada Center for Space Science, National Research Council, 100 Sussex Drive, Ottawa, Ontario, K1A 0R6, Canada

ATLAS, Dr. D., Code 910, Laboratory for Atmospheric Science, Goddard Space Flight Center, Greenbelt, MD 20771 USA

ATTIMANNSPACHER, Dr. W., Deutscher Wetterdienst, Met. Observatorium, Hohenpeissenberg 8126, Federal Republic of Germany

AVASTE, Dr. O., Institute of Physics and Astronomy, Academy of Sciences, Tartu, Estonia, USSR

AVDYUSHIN, Dr. S., Institute of Applied Geophysics, Glebovskaya St 20C, Moscow, USSR

AVERY, Dr. S. K., CIRES, Campus Box 449, University of Colorado, Boulder, CO 80309 USA

AVISUK, Dr. G. A., Academy of Sciences, Ul Vavilova 30A, Moscow B333, USSR

AWAKA, Dr. J., Kashima Branch, Radio Research Laboratories, Kashima-cho, Ibaraki 314, Japan

AXFORD, Dr. W. I., Max-Planck-Institut fur Aeronomie, Postfach 20, 3411 Katlenburg-Lindau 3, Federal Republic of Germany

BADILLO, Dr. V. L., Manila Observatory, P. O. Box 1231, Manila, Philippines

BAHL, Mr. A. C., RSR-TERLS, Vikram Sarabhai Space Centre, ISRO P.O. Trivandrum, 695022, India

BAIR, Dr. E. J., Department of Chemistry, Indiana University, Bloomington, IN 47405 USA

BAKER, Dr. D. N., Mail Stop D438, Los Alamos National Laboratory, Los Alamos, New Mexico 87545 USA

BAKER, Prof. K. D., Department of Electrical Engineering, Utah State University, UMC 41, Logan, UT 84322 USA

BALACHANDRA SWAMY, Dr. A. C., Department of Physics and Electronics, Sharada Vilas College, Mysore 570004, India

BALI, Miss A., JRF, Radio Science Division, National Physical Laboratory, Hillside Road, New Delhi 110012, India

BALSIGER, Prof. H., Physikalisches Institut, University of Bern, Sidlerstrasse 5, 3012 Bern, Switzerland

BALSLEY, Dr. B. B., Aeronomy Laboratory, National Oceanic and Atmospheric Administration, Environmental Research Laboratories, 325 Broadway, Boulder, CO 80303 USA

BANDEEN, Dr. W., Code 910, NASA Goddard Space Flight Center, Greenbelt, MD 20771 USA

BANDY, Dr. A. R., Chemistry Department, Drexel University, Philadelphia, PA 19104 USA

BANDYOPADHYAY, Dr. P., Institute of Radio Physics and Electronics, Calcutta University, Acharya Prafulla Chandra Road, Calcutta 700009, India

BANERJEE, Dr. A., National Physical Laboratory, Hillside Road, New Delhi, 110012, India

BANKS, Prof. P. M., Center for Research in Aeronomy, Utah State University, Logan, UT 84322 USA

BAO, Prof. Z. T., Department of Space Physics, Wuhan University, Wuhan, China

BARAT, Prof. J., S. A. CNRS, BP 3, 91370 Verrières-le-Buisson, France

BARBE, Dr. A., Laboratoire Physique Molécules, Fac. Sciences Reims, BP 354, 51062 Reims, France

BARCUS, Dr. J. R., Department of Physics, University of Denver, Denver, CO 80208

BARLIER, Mr. M. F., Cerga Avenue Copernic, 06130 Grasse, France

BARNETT, Dr. J. J., Clarendon Laboratory, Oxford University, Oxford OX1 3PU, United Kingdom

BARON, Dr. M. J., G-119, Geoscience and Engineering Center, SRI International, 333 Ravenswood Avenue, Menlo Park, CA 94025 USA

BARR, Mr. N. M., Boeing Commercial Airplane Company, P. O. Box 3707, MS 73-07, Seattle, WA 98124 USA

BATES, Dr. J. R., Meteorological Service, Glasnevin Hill, Dublin 9, Ireland

BATTANER, Dr. E., Instituto de Astrofisica de Andalucia, Passeo de Cartuja 4,
Apartado 2002, Granada, Spain

BAUDRY, Mr., Observatoire de Bordeaux, 33270 Floirac, France

BAUER, Dr. E., IDA, 1801 N. Beauregard Street, Alexandria, VA 22311 USA

BAUER, Dr. P., CRPE, CNET, 38 rue de General Le Clerc, 92131, Issy-les-
Moulineaux, France

BAUER, Prof. S. J., Institut fur Meteorologie und Geophysik, University of
Graz, Graz A-8010, Austria

BEASLEY, Dr. W., (BASC, JH810) National Research Council, 2101 Constitution
Avenue, N.W., Washington, DC 20418-0001 USA

BEHNKE, Dr. R., National Science Foundation, 1800 G Street, N.W., Washington,
DC 20550 USA

BEIG, Mr. G., Physical Research Laboratory, Navrangpura, Ahmedabad 380009,
India

BEKOE, Prof. D. A., Department of Chemistry, The University, Legon, Accra,
Ghana

BELLET, Dr. J., Universite des Sciences et Techniques de Lille I, Laboratoire
de Spectroscopie Hertzienne, 59000 Lille, France

BELMONT, Dr. A. D., Meteorology Department, Control Data Corporation, P. O.
Box 12496, Minneapolis, MN 55440 USA

BELROSE, Dr. J. S., Communications Research Center, Department of Commerce,
Box 11490 Station H, Shirley Bay, Ottawa, Ontario, Canada K2H 8S2

BENCZE, Dr. P., Geodetical and Geophysical Research Institute, Hungarian
Academy of Sciences, P. O. Box 5, Sopron 9401, Hungary

BENEDIKTOV, Dr. E. A., Radiophysical Research Institute, Gorky 603600, USSR

BENESCH, Dr. W., Institute for Molecular Physics, University of Maryland,
College Park, MD 20742 USA

BERGER, Prof. A., Universite Catholique de Louvain, Place de la Sariette, 2,
B-1348, Louvain-la-Neuve, Belgium

BERNARD, Dr. P., Institut de Physique du Globe, 4 Place Jussieu Tour 14, 75230
Paris, France

BERNING, Dr. W. W., 11007 Candlelight Lane, Potomac, MD 20854 USA

BERRIOR, Prof. A., Laboratoire de Meteorologie Dynamique, Ecole Polytechnique,
Route Departementale 36, 91128 Palaiseau Cedex, France

BERTHELIER, Dr. J. F., Groupe de Recherche Ionosphere, 4 Avenue de Neptune,
94100 Saint-Mau-des-Fosses, France

BERTIN, Dr. F., CRPE, CNET, 3 Avenue de la Republique, 92130 Issy-les-
Moulineaux, France

BESSEMOULIN, Dr. P., Director de la Meteorologie, CNRM, Ave Eisenhower
Prolongee, 31057 Toulouse Cedex, France

BEST, Prof. G. T., Department of Physics, New University of Ulster, Coleraine,
Co. Londonderry, Ireland BT52 1SA

BEVILABQUA, Dr. R. M., Code 4138 BE, Department of the Navy, Naval Research
Laboratory, Washington, D. C. 20375-5000 USA

BEYNON, Prof. Sir G., Department of Physics, University College of Wales,
Aberystwyth, SY23 3BZ, United Kingdom

BHATNAGAR, Dr. A., Vedhshala Udaipur Solar Observatory, 11 Vidya Marg, Udaipur
313001, India

BHATNAGAR, Dr. S. P., Department of Physics, Gujarat University, Ahmedabad,
Gujarat 380009, India

BHATTACHARYA, Prof. J. C., Indian Institute of Astrophysics, Sarajpur Road,
Bangalore 560034, India

BHATTACHARYA, Dr. K., Radio Science Division, National Physical Laboratory,
Hillside Road, New Delhi 110012, India

BHAVSAR, Prof. P. D., Physical Research Laboratory, Navrangpura, Ahmedabad
380053, India

BHONSE, Prof. R. V., Physical Research Laboratory, Navrangpura, Ahmedabad
380009, India

BIBL, Dr. K., Center for Atmospheric Research, University of Lowell, 450 Aiken
Street, Lowell, MA 01854 USA

BIERLEY, Dr. E., National Science Foundation, 1800 G Street, N.W., Washington,
DC 20550 USA

BIGG, Dr. E. K., Division of Cloud Physics, CSIRO, Box 134, Epping 2121,
Australia

BIONDI, Dr. M. A., Physics Department, University of Pittsburgh, Pittsburgh,
PA 15260 USA

BISCHOFF, Dr. K., Gebaude 19.08, Rudower Chaussee 5, Berlin 1199, German
Democratic Republic

BISWAS, Prof. S., Tata Institute of Fundamental Research, Homi Bhabha Road,
Colaba, Bombay 400005, India

BJORN, Dr. L., Swedish Space Corporation, Tritonvayen 27, S 17154 Solna,
Sweden

BJURSTEDT, Prof. H., Department of Aviation Medicine, Karolinska Institute,
Stockholm, S-10401, Sweden

BLACK, Dr. S., Laboratory for Biochem Pharmacology, Institute for Arthritis,
Metab and Diges. Dis., Bethesda, MD 20014 USA

BLACKSHEAR, Dr. W. T., NASA Langley Research Center, Hampton, VA 23665 USA

BLAKE, Dr. A. J., Department of Physics, University of Adelaide, G.P.O. Box 498, Adelaide, Australia 5001

BLAKE, Dr. J. B., A6/2437, The Aerospace Corporation, P. O. Box 92957, Los Angeles, CA 90009 USA

BLAMONT, Dr. J. E., Service d'Aeronomie, PB 3, 91370 Verrieres-le Buisson, France

BLANC, Dr. M., CNET, CRPE, 3 Avenue de la Republique, 92131 Issy-les-Moulineaux, France

BLANK, Dr. C. A., Code RAAE, Defense Nuclear Agency, Washington, DC 20305 USA

BLASS, Dr. W. E., Department of Physics and Astronomy, University of Tennessee, Knoxville, TN 37996 USA

BLOCK, Dr. B. P., Pennwalt Corporation, 900 First Avenue, Box C, King of Prussia, PA 19406 USA

BOELLA, Prof. G., Istituto per le ricerche di Fisica Cosmica e tecnologie, relative, CNR via Bassini 15-20133, Milano, Italy

BOHME, Dr. W., Meteorological Service of DDR, Albert Einstein Strasse, Potsdam 1500, German Democratic Republic

BOJKOV, Dr. R. D., Atmospheric Environment Service, 4905 Dufferin Street, Downsview, Ontario M3H 5T4, Canada

BOLLE, Prof. H.-J., Institute fur Meteorologie, WE 07 im FB Geowise Freie Universitat, Berlin, Dietrich-Schafer-Weg 6-8, D-1000 Berlin 41, Federal Republic of Germany

BONETTI, Prof. A., Physical Institute, Space Physics Group, Via L. Pancaldo 3/45, 50127 Florence, Italy

BORTNER, Dr. M. H., General Electric Company, P. O. Box 8555, Philadelphia, PA 19101 USA

BORUCKI, Dr. W. J., Ames Research Center, NASA Moffett Field, CA 94035 USA

BOSSY, Prof. L. G. A., Geophysique Externe, Institut Royal Meteorologique, 3 Avenue Circulaire, B-1180 Brussels, Belgium

BOSTROM, Prof. R., Uppsala Ionospheric Observatory, 575590 Uppsala, Sweden

BOURKE, Dr. W., Australian Numerical Meteorological Research Center, P. O. Box 5089 AA, Melbourne, Victoria, Australia 3001

BOWHILL, Prof. S. A., Department of Electrical Engineering, University of Lowell, One University Avenue, Lowell, MA 01854 USA

BOWMAN, Dr. G. G., Department of Physics, University of Queensland, Brisbane, Q-4067, Australia

BOWTHORPE, Mr. M., Scientific and Engineering Research Council, P. O. Box 18, North Star Avenue, Swindon, United Kingdom

BRADSELL, Mr. R. H., National Physical Laboratory, Queens Road, Teddington
Middlesex TW11 0LW, United Kingdom

BRAGIN, Dr. Yu. A., Novosibirsk State University, Novosibirsk 630090, USSR

BRASSEUR, Dr. G., Institut d'Aeronomie Spatiale de Belgique, Avenue Circulaire,
3, B-1180 Brussels, Belgium

BRASUNAS, Mr. J. C., Code 693.2, Goddard Space Flight Center, Greenbelt, MD
20771 USA

BREKKE, Dr. A., The Auroral Observatory, N-9001 Tromso, Norway

BRIDGER, Dr. A. F. C., Department of Meteorology, San Jose State University,
San Jose, CA 95192 USA

BRIGGS, Dr. B. H., Department of Physics, University of Adelaide, Adelaide
5000, Australia

BRION, Dr. J., Laboratoire de Chimie Physique, UER Sciences, B.P. 347, 51062
Reims Cedex, France

BROADFOOT, Dr. A. L., Space Sciences Institute, 3625 E. Ajo Way, Tucson, AZ
85/13 USA

BRODERICK, Dr. A. J., Federal Aviation Administration, 800 Independence Avenue,
S.W., Washington, DC 20591 USA

BROOKES, Dr. C. J., University of Aston, Gosta Green, Birmingham B4 7ET,
United Kingdom

BROSWEICK, Dr. A. J., Federal Aviation Administration, 800 Independence Avenue
SW, Washington, D. C. 20591 USA

BROWELL, Dr. E. V., NASA Langley Research Center, Mail Stop 901A, Hampton, VA
23665 USA

BROWN, Mr. G. M., Department of Physics, University College of Wales, Penglais,
Aberystwyth, SY23 3BZ, United Kingdom

BROWN, Mr. N. B., Poker Flat Research Range, UAF GI (Elvey Building), 903
Koyukuk Avenue North, Fairbanks, AK 99701 USA

BRUCKNER, Dr. G. E., E. O. Hurlburt Center for Space Research, Naval Research
Laboratory, Code 4160 224, Washington, DC 20375 USA

BUCHA, Dr. V., Geophysical Institute, Bocni II, 74737 Prague 4, Czechoslovakia

BUCHAU, Dr. J., LIB, Air Force Geophysics Laboratory, Hanscom Air Force Base,
MA 01731 USA

BUFTON, Dr. J., NASA Goddard Space Flight Center, Greenbelt, MD 20771 USA

BUHMANN, Dr. R. W., WDC-A, D 64, National Oceanic and Atmospheric Administra-
tion, 325 Broadway, Boulder, CO 80303 USA

BUMBA, Dr. V., Observatory Ondrejov, Czechoslovak Academy of Sciences, 25165
Ondrejov, Czechoslovakia

BURKE, Dr. H. K., M.I.T. Lincoln Laboratory, P.O. Box 73, Room KB-205,
Lexington, MA 02173 USA

BURKE, Dr. R. R., CNS, CNET, BP 98, 38243 Meylan Cedex, France

BURKE, Dr. T. P., University College of Dublin, Belfield, Stillorgan Road,
Dublin 4, Ireland

BURROWS, Dr. J. P., Max-Planck-Institut fur Chemie, 23 Saarstrasse, Mainz
D-6500, Federal Republic of Germany

BURROWS, Dr. R. J., National Research Council, Room 2025, 100 Sussex Drive,
Ottawa, Ontario, Canada

CADET, Dr. D., Laboratoire de Meteorologie Dynamique, Ecole Polytechnique,
91128 Palaiseau Cedex, France

CALLIS, Dr. L. B., NASA Langley Research Center, Mail Stop 401B, Hampton, VA
23665 USA

CALLUS, Mr. F., Bureau of Meteorology, Box 1289K, GPO Melbourne 3001,
Australia

CAMPBELL, Dr. M. J., Air Research/Dana 306, Washington State University,
Pullman, WA 99164 USA

CAMPBELL, Dr. P. H. M., Department of Physics, The University, Leicester, LE1
7RH, United Kingdom

CAMPBELL, Dr. W. H., USGS, Mail Stop 964, Federal Center Box 25046, Denver, CO
80225 USA

CANDIDI, Dr. M., IPS/CNR CP 27, Frascati 00044 (Rome), Italy

CARDUS, Dr. J. O., Observatorio del Ebro, Roquetas (Tarragona), Spain

CARIOLLE, Dr. D., EERM, 73 Rue de Sevres, 92106 Boulogne, France

CARLSON, Dr. H., PHY, Air Force Geophysics Laboratory, Hanscom Air Force Base,
MA 01731 USA

CARLSON, Dr. R. W., Department of Physics, University of Southern California,
Los Angeles, CA 90007 USA

CARPENTER, Dr. L. A., Ionosphere Research Laboratory, Pennsylvania State
University, University Park, PA 16802 USA

CARRIGAN, Dr. R. A., Atmospheric Chemistry, Room 644, National Science
Foundation, 1800 G Street, N.W., Washington, DC 20550 USA

CARTER, Mr. D. A., National Oceanic and Atmospheric Administration, 325
Broadway, Boulder, CO 80303 USA

CARTER, Mr. W. D., EROS Program, USGS, 1925 Newton Square East, Reston, VA
22090 USA

CARTWRIGHT, Dr. E. C., Theoretical Division, Mail Stop 531, Los Alamos, NM
87545 USA

CARVER, Prof. J. H., School of Physical Science, Australian National University, P. O. Box 4, Canberra ACT 26001, Australia

CASTLEMAN, Dr. A. W., Department of Chemistry, University of Colorado, Boulder, CO 80309 USA

CAUFFEMAN, Dr. D. P., Lockheed Palo Alto Research Laboratory, 3251 Hanover Street, Palo Alto, CA 94304 USA

CAYLA, Mr., EERM, 73 Rue de Sevres, 92106 Boulogne, France

CAZENEUVE, Dr. H. A., Nacional del Antartico, Cerrito 1248, Buenos Aires, Argentina

CEPLECHA, Dr. Z., Observatory Ondrejov, Czechoslovak Academy of Sciences, 25165 Ondrejov, Czechoslovakia

CHAHINE, Dr. M. T., 183-335, Jet Propulsion Laboratory, 4800 Oak Grove Drive, Pasadena, CA 91109 USA

CHAKRABARTY, Dr. D. K., Physical Research Laboratory, Navrangpura, Ahmedabad 380009, India

CHAKRABARTY, Dr. Mrs. P., Physical Research Laboratory, Navrangpura, Ahmedabad 380009, India

CHAKRAVARTY, Dr. S. C., ISRO Headquarters, Cauvery Bhawan, F. Block, District Office, Bangalore 560009, India

CHAMBERLAIN, Dr. J. W., Department of Space Physics and Astronomy, Rice University, Houston, TX 77001 USA

CHAMEIDES, Dr. W., Department of Atmospheric and Oceanic Sciences, University of Michigan, Ann Arbor, MI 48105 USA

CHAMPION, Dr. K. S. W., LKB, Air Force Geophysics Laboratory, Hanscom Air Force Base, MA 01731 USA

CHAN, Dr. R., Mailstop 245-5, NASA Ames Research Center, Moffett Field, CA 94035 USA

CHANDRA, Dr. S., Code EE-8, NASA Headquarters, 400 W. Maryland Avenue, Washington, DC 20546 USA

CHANDRAMMA, Smt. S., Department of Physics, Yuvaraja's College, University of Mysore 570005, India

CHANDRASEKHAR, Mr. S., IMAP Office, Janardhan Tower, Residency Road, Bangalore 560009, India

CHANG, Dr. J.-S., Department of Engineering Physics, McMaster University, Hamilton, Ontario, L8S 4M1, Canada

CHANG, Dr. J. S., Lawrence Livermore Laboratory, P.O. Box 808, Livermore, CA 94550 USA

CHANG, Dr. N. J., SRI International, 333 Ravenswood Avenue, Menlo Park, CA 94025 USA

CHANG, Dr. P. Y.-F., Department of Atmospheric Physics, National Central University, Chung-Li, Taiwan 32054, Republic of China

CHANIN, Dr. M.-L., CNRS Aeronomie, BP 3, Verrieres-le-Buisson, France

CHAO, Prof. C. C., P. O. Box 5112, Beijing, China

CHAO, Prof. J. K., Department of Atmospheric Physics, National Central University, Chung-Li, Taiwan, Republic of China

CHAO, Dr. W. C., Code 616, Goddard Space Flight Center, Greenbelt, MD 20771 USA

CHARNOCK, Dr. H., Institute of Ocean Science, Wormley, Godalming, Surrey, United Kingdom

CHATTERJEE, Dr. K., India Meteorological Department, Lodhi Road, New Delhi, 110003, India

CHEDIN, Dr., Laboratoire de Meteorologie Dynamique, Ecole Polytechnique, 91128 Palaiseau Cedex, France

CHEN, Prof. B., Purple Mountain Observatory, Nanjing, China

CHEN, Prof. G.-F., P.O. Box 5112, Beijing, China

CHEN, Mr. H. S., E55 G216 Hughes Aircraft Company, Box 902, El Segundo, CA 90245 USA

CHEN, Mr. J.-C., Chinese Academy of Science, P.O. Box 5112, Beijing, China

CHEN, Dr. P.-R., P.O. Box 5112, Beijing, China

CHEN, Dr. T. C., 310 Curtiss Hall, Iowa State University, Ames, IA 50011 USA

CHEN, Mr. Y.-U., Institute of Space Physics, P.O. Box 5112, Beijing, China

CHERVIN, Dr. R. M., National Center for Atmospheric Research, P.O. Box 3000, Boulder, CO 80307 USA

CHIPEMBELE, Dr. F. M., Department of Meteorology, Box 26, Northwestern Province, Kabompo, Zambia

CHOU, Dr. C. C., Scripps Institute of Oceanography A-020, University of California at San Diego, La Jolla, CA 92093 USA

CHOU, Mr. W., Institute of Space Physics, Chinese Academy of Science, P.O. Box 5112, Beijing, China

CHRISTIANSEN, Prof. W. N., School of Electrical Engineering, University of Sydney, Sydney NSW 2006, Australia

CHRISTIE, Dr. A. D., Atmospheric Environment Service, 4905 Dufferin Street, Downsview, Ontario, Canada

CHRISTOPHE, Dr. J., Institut d'Astrophysique, 98 Bis Boulevard Arago, 75014 Paris, France

CICERONE, Dr. R. J., National Center for Atmospheric Research, Box 3000, Boulder, CO 80307 USA

CISNEROS, Dr. J. M., Instituto Nacional de Meteorologia, Sect. de Investigacion, Apartado 285, Madrid 28071, Spain

CLAIREMIDI, Mr., Observatoire de Besancon, 36 Avenue de l'Observatoire, 25000 Besancon, France

CLANCY, Dr. T., LASP, University of Colorado, Campus Box 392, Boulder, CO 80309-0392 USA

CLARK, Dr. J. H. E., The Pennsylvania State University, 513 Walker, University Park, PA 16802 USA

CLARK, Dr. K. C., Physics FM-15, University of Washington, Seattle, WA 98195 USA

CLARK, Prof. R. R., Electrical and Computer Engineering Department, University of New Hampshire at Kingsbury, Durham, NH 03824 USA

CLARK, Prof. T. A., Physics Department, University of Calgary, 2920 24th Avenue, N.W., Calgary, Alberta, T2N 1N4, Canada

CLEMESHA, Dr. B. R., Instituto de Pesquisas Espaciais, Caixa Postal 515, Sao Jose Dos Campos, 12200 Sao Paulo, Brazil

CLOUGH, Dr. S. A., Met 020, Meteorological Office, Bracknell, Berks., RG 12252, United Kingdom

COAKLEY, Dr. J. A., National Center for Atmospheric Research, P.O. Box 3000, Boulder, CO 80307 USA

COCKAYNE, Dr. J. E., Science Applications, Inc., 1710 Goodridge Drive, Box 1303, McLean, VA 22101 USA

COFFEY, Dr. M. T., National Center for Atmospheric Research, Box 3000, Boulder, CO 80307 USA

COGGER, Dr. L. L., Department of Physics, University of Calgary, Calgary, Alberta T2N 1N4, Canada

COLE, Dr. D. G., Department of Science, IPS, Box 702, Darlinghurst NSW, Australia

COLE, Prof. K. D., Department of Theoretical and Space Physics, La Trobe University, Bundoora, Victoria 3083, Australia

CORMIER, Mr. R. V., Technical Programs Branch, Air Force Geophysics Laboratory, Hanscom Air Force Base, MA 01731 USA

CORONITI, Dr. S. C., 3305 Mill Springs Drive, Fairfax, VA 22031 USA

COSSART, Dr. G. V., Akademie der Wissenschaften, Zentralinstitut fur STP, Berlin 1199, German Democratic Republic

COWLEY, Dr. S. W. H., Lackett Laboratory, Imperial College, London SWF 2BZ, United Kingdom

CRAIN, Dr. C. M., The Rand Corporation, 1700 Main Street, Santa Monica, CA 90406 USA

CRAINE, Dr. L. B., Electrical Engineering Research, Washington State University, Pullman, WA 99164 USA

CRANE, Dr. A. J., Department of Atmospheric Physics, University of Oxford, Parks Road, Oxford OX1 3PU, United Kingdom

CRANE, Dr. R. K., Thayer School of Engineering, Dartmouth College, Hanover, NH 03755 USA

CREER, Prof. K. M., University of Edinburgh, Maxwell Building, Mayfield Road, Edinburgh EH9 3JE, United Kingdom

CRESS, Lt. Col. T. S., AFOSR/NC, Bolling Air Force Base, DC 20332 USA

CROCHET, Dr. M., L.S.E.E.T. La Piponne, Boulevard des Armaris, 83100 Toulon, France

CROFT, Dr. T. A., 320 SRI International, 333 Ravenswood Avenue, Menlo Park, CA 94025-3493 USA

CROMMELYNCK, Dr. D., Institute Royal Meteorologique de Belgique, 3 Avenue Circulaire, B-1180 Brussels, Belgium

CROOK, Mr. E. D., Space Division, National Research Council, 100 Sussex Drive, Ottawa, Ontario K1A 0R6, Canada

CROOM, Dr. D. L., Rutherford Appleton Laboratory, Chilton, Didcot, OX11 0QX, United Kingdom

CROSS, Dr. W. F., Office of Naval Research, 800 N. Quincy Street, Arlington, VA 22217 USA

CRUTZEN, Prof. Dr. P. J., Air Chemistry Department, Max-Planck-Institut fur Chemie, P.O. Box 3060, Mainz D-6500, Federal Republic of Germany

CUN, Prof. C., P.O. Box 5112, Beijing, China

CUNNOLD, Dr. D. M., School of Geophysical Science, Georgia Institute of Technology Atlanta, GA 30382 USA

CZECHOWSKY, Dr. P., Max-Planck-Institut fur Aeronomie, Katlenburg-Lindau D-3411, Federal Republic of Germany

DALGARNO, Dr. A., Harvard College Observatory, 60 Garden Street, Cambridge, MA 02138 USA

DALY, Dr. G., Institut de Fisica dell'Atmosferics, Piazza Sturzo 30, Rome I-00144, Italy

DAMLE, Prof. S. V., Tata Institute of Fundamental Research, Homi Bhabha Road, Colaba, Bombay 400005, India

DANIEL, Prof. R. R., Tata Institute of Fundamental Research, Homi Bhabha Road, Colaba, Bombay 400005, India

DANIELSEN, Dr. E. F., MailStop 245-3, NASA Ames Research Center, Moffett Field, CA 94035 USA

DANILOV, Dr. A. D., Institute of Applied Geophysics, Hydrometeorological Service, 6 Pavlika Morozova Street, Moscow, USSR

DARDI, Dr. A., Laboratorio Fisbat, CNR, Via de Castagnoli 1, 40126 Bologna, Italy

DAS, Dr. I. M. L., Department of Physics, University of Allahabad, Allahabad 211002, India

DAS, Dr. P. K., Centrer for Atmospheric Sciences, Indian Institute of Technology, Haus Khas, New Delhi 110029, India

DASGUPTA, Mr. A. K., Institute of Radiophysics and Electronics, Calcutta University, 92 Acharya Prafulla Chandra Road, Calcutta 700009, India

DASGUPTA, Mr. M. K., Institute of Radiophysics and Electronics, Calcutta University, 92 Acharya Prafulla Chandra Road, Calcutta 700009, India

DATTA, Dr. Mrs. J., IMAP Office, Janardhan Tower, Residency Road, Bangalore 560025, India

DAUMONT, Dr. D., Lab de Chimie Physics, UER Sciences, B.P. 347, 51026 Reims Cedex, France

DAVIES, Prof. D. R., Department of Mathematics, The University, Exeter, Devon, United Kingdom

DAVIS, Dr. G. R., Department of Atmospheric Physics, Oxford University, Parks Road, Oxford OX1 3PU, United Kingdom

DE, Dr. S. S., Institute of Radiophysics and Electronics, Calcutta University, 92 Acharya Prafulla Chandra Road, Calcutta 700009, India

DE ALBA, Dr. A. S., Jefe del Centro Estudios Meteorologicos Instituto Nacional de Meteorologia, Ciudad Universitaria, Madrid 3, Spain

DE AZCARRAGA, Dr. A., CONIE, Pas del Pintor Rosales 34, Apartado de Correos 83501, Madrid, Spain

DE BETTENCOURT, Dr. J. T., 137 Washington Avenue, Needham, MA 02192 USA

DE JAGER, Prof. C., Space Research Laboratory, Beneluxlaan 21, Utrecht 3527, N.S., The Netherlands

DE LA BEAUVARDIERE, Dr. O., G 216, SRI International, 333 Ravenswood Avenue, Menlo Park, CA 94025 USA

DE LA BOUDINIERE, Dr. J. P., Laboratoire de Physique Stellaire et Planetaire, CNRS, P. B. 10, 91370 Verrieres-le-Buisson, France

DE LA MORENA, Mr. B. A., Estacion Sondeos Atmosfericos, INTA-CONIE, Instalaciones "El Arenosillo", Mazagon (Huelva), Spain

DE LA NOE, Prof., Observatoire de Bordeaux, 53270 Floirac, France

DE MENDONCA, Dr. F., Instituto de Pesquisas Espaciais, Caixa Postal 515, Sao Jose Dos Campos, 12200 Sao Paulo, Brazil

DE MIGUEL, Dr. L., Instituto Geografico Nacional, Gral Ibanaz de Ibero 3 Apdo, Madrid 3, Spain

DE MUER, Dr. D., Institute of Royal Meteorology, Ringlaan 3, B-1180 Brussels, Belgium

DEEPAK, Dr. A., Institute for Atmospheric Optics and Remote Sensing, P.O. Box P. Hampton, VA 23666 USA

DEEKSHATULU, Dr. B. L., National Remote Sensing Agency, Balanagar, Hyderabad 500037, India

DEFRISE, Prof. P., Avenue des Ortolans, 44, B-1170 Brussels, Belgium

DEGAONKAR, Dr. S. S., Physical Research Laboratory, Ahmedabad 380009, India

DELGRECO, Dr. F. P., XPO, Air Force Geophysics Laboratory, Hanscom Air Force Base, MA 01731 USA

DENING, Dr. W., UMC 41 Physics Department, Utah State University, Logan, UT 84322 USA

DESHPANDE, Dr. B. S., College of Engineering, Amravati 444603, India

DESHPANDE, Dr. M. R., Department of Applied Physics, College of Engineering, Amravati 444603, India

DESHPANDE, Dr. S. D., College of Engineering, Amravati 444603, India

DESENS, Dr. J., Centre de Recherches Atmosphère, Cedex B47, 65300 Lannemazan, France

DESSLER, Prof. A. J., Space Physics Department, Rice University, P.O. Box 1892, Houston, TX 77251 USA

DEVANARAYANAN, Dr. S., Department of Physics, University Centre, Kariavattom 695581, Trivandrum, India

DEVARA, Dr. P. C. S., Indian Institute of Tropical Meteorology, Ramdurg House, University Road, Shivajinagar, Pune 411005, India

DEVARAJAN, Mr. M., ELS Vikram Sarabhai Space Centre, ISRO P.O., Trivandrum 695022, India

DEVASIA, Dr. C. V., SPL Vikram Sarabhai Space Centre, ISRO P.O., Trivandrum 695022, India

DEWAN, Dr. E. M., LKD, Air Force Geophysics Laboratory, Hanscom Air Force Base, MA 01731 USA

DEZSO, Prof. L., Heliophysical Observatory, Hungarian Academy of Science, P.O. Box 30, Debrecen H4010, Hungary

DHAWAN, Prof. S., Department of Space, Cauvery Bhavan, K. G. Road, Bangalore 560009, India

DICKE, Prof. R. H., Joseph Henry Laboratory, Physics Department, Jadwin Hall, Princeton University, Princeton, NJ 08544 USA

DICKINSON, Mr. L. G., 1128 Allston Court, San Jose, CA 95120 USA

DICKINSON, Dr. P. H. G., SERC, Rutherford Appleton Laboratory, Chilton, Didcot OX11 0QX, United Kingdom

DICKINSON, Dr. R. E., National Center for Atmospheric Research, Box 3000, Boulder, CO 80307 USA

DODGE, Dr. J. C., Earth Observations ERD, NASA Headquarters, 400 W. Maryland Avenue, Washington, DC 20546 USA

DOGNIAUX, Mr. R., Institut Royal Meteorologique de Belgique, Avenue 3 Circulaire, B-1180 Brussels, Belgium

DOLAS, Dr. P. M., Space Physics Laboratory, Vikram Sarabhai Space Centre, ISRO P.O trivandrum 695022, India

DONAHUE, Dr. T. M., Department of Atmospheric and Oceanic Sciences, University of Michigan, Ann Arbor, MI 48104 USA

DONEAUD, Dr. A., Rumanian Meteorological Institute, Polesti 97, Soseau Bucharest, Rumania

DONN, Dr. W. L., Damont-Doherty Geological Observatory, Palisades, NY 10964 USA

DONNELLY, Dr. R. F., Space Environment Laboratory, 1-2119, National Oceanic and Atmospheric Administration, 325 Broadway, Boulder, CO 80303 USA

DOWDEN, Prof. R. L., Department of Physics, University of Otago, Box 56, Dunedin, New Zealand

DROTMAN, Dr. D. P., Center for Disease Control, 1600 Clifton Road, N.E., Atlanta, GA 30306 USA

DRYER, Dr. M., Space Environment Laboratory R 43, National Oceanic and Atmospheric Administration, 325 Broadway, Boulder, CO 80303 USA

DUBIN, Dr. M., Code 963, NASA Goddard Space Flight Center, Greenbelt, MD 20771 USA

DUCE, Dr. R. A., Center for Atmospheric Chemistry Studies, University of Rhode Island, Kingston, RI 02881 USA

DUDENHEY, Dr. J. R., British Antarctic Survey, Madingley Road, Cambridge CB3 OET, United Kingdom

DUTKIEWICZ, Dr. V. A., Division of Laboratoires and Research, New York State Department of Health, Albany, NY 12201 USA

DUTTA, Dr. R. K., India Meteorological Department, Lodhi Road, New Delhi 110003, India

DUTTA, Dr. S. K., ISRO Headquarters, Cauvery Bhavan, K. G. Road, Bangalore 560009, India

DVOSKIN, Mr. N., C27-05, Grumman Aerospace Corporation, Bethpage, NY 11714 USA

DYER, Dr. A. J., Division of Atmospheric Physics, CSIRO, Mordialloc Victoria 3195, Australia

DYER, Dr. E. R., 3626 Davis Street, NW, Washington, DC 20007 USA

DYMEK, Dr. M., Space Research Centre, Polish Academy of Sciences, 21 Ordona, Warsaw 01-237, Poland

EASTMAN, Dr. T. E., Code EE-S, Space Plasma Physics, NASA Headquarters, 600 Independence Avenue, SW, Washington, DC 20546 USA

EBBESEN, Dr. I. K., Meteorological Institut, Lyngbyvej 100, Copenhagen O, DK 2100, Denmark

EBEL, Prof. Dr. A., Institut fur Geophysik und Meteorologie, Universitat zu Koeln, Koeln 41, D-5000, Federal Republic of Germany

EBERSTEIN, Dr. I., Code 616, NASA Goddard Space Flight Center, Greenbelt, MD 20771 USA

ECKLUND, Mr. W. L., Aeronomy Laboratory, National Oceanic and Atmospheric Administration, R445, 325 Broadway, Boulder, CO 80303 USA

ECKMAN, Dr. R., Department of Physical Chemistry, University of Cambridge, Lensfield Road, Cambridge CB2 1EP, United Kingdom

EDDY, Dr. J., High Altitude Observatory, National Center for Atmospheric Research, P.O. Box 3000, Boulder, CO 80307 USA

EDGAR, Dr. B. C., Aerospace Corporation, Box 92957, Los Angeles, CA 90009 USA

EDWARDS, Mrs. B., Department of Electrical and Computer Engineering, University of Illinois, 1406 W. Green Street, Urbana, IL 61801 USA

EGGER, Dr. J., Institut fur Theoretical Meteorologie, Universitat Munchen, 37 Theresienstrasse, Munchen 2, D-8000, Federal Republic of Germany

EGGLETON, Dr. A. E. J., Environmental and Medical Science Division, Building 551.5, Aere, Harwell, Didcot, OXON, United Kingdom

ENHALT, Dr. D. H., Kernforschungsanlage Julich GmbH, Institut fur Chemie 3, Atmospahrische Chemie, Postfach 1913, 5170 Julich, Federal Republic of Germany

ELFORD, Dr. W. G., Department of Physics, University of Adelaide, Adelaide 5001, Australia

ELIAS, Dr. L., NAE, National Research Council, Ottawa, Ontario K1N 0R6, Canada

ELSON, Mr. L., 183-301, Jet Propulsion Laboratory, 4800 Oak Grove Drive, Pasadena, CA 91109 USA

ENTZIAN, Dr. G., Observatorium fur Ionospharenforschung, Kuhlungsborn 2526, German Democratic Republic

ESSEX, Dr. E. A., Physics Department, La Trobe University, Bundoora, Victoria 3083, Australia

EVANS, Dr. J. V., COMSAT Laboratories, 22300 Comsat Drive, Clarksburg, MD 20871 USA

EVANS, Dr. W. F. J., Atmospheric Environmental Service, 4905 Dufferin Street, Downsview, Ontario, M3H 5T4, Canada

EVIATAR, Dr. A., Department of Environmental Science, Tel-Aviv University, Ramat-Aviv, Israel

FABIAN, Dr. P., Max-Planck-Institut fur Aeronomie, Katlenburg-Lindau 3, D-3411, Federal Republic of Germany

FAHEY, Dr. D. W., Aeronomy Laboratory/NOAA/ERL, 325 Broadway, R/E/AL6, Boulder, CO 80303 USA

FALCONER, Dr. P., ASRC, ES324, State University of New York, 1400 Washington Avenue, Albany, NY 12222 USA

FALIN, Dr. J., GRGS/CERGA, 8 BD Emile Zola, 06130 Grasse, France

FALTHAMMAR, Dr. C. G., Royal Institute of Technology, Stockholm 44 S-100, Sweden

FANG, Dr. Z. Z., Institute of Space Physics, Chinese Academy of Sciences, P.O. Box 5112, Beijing, China

FARIS, Mr. F. E., Interdevelopment, Inc., Suite 1014, 2361 South Jefferson Davis Highway, Arlington, VA 22202 USA

FARLEY, Dr. D. T., Phillips Hall, Cornell University, Ithaca, NY 14853 USA

FARMER, Dr. A., Department of Physics and Astronomy, University College of London, Gower Street, London WC1E 6BT, United Kingdom

FARMER, Dr. C. B., Jet Propulsion Laboratory, Mail Stop 183/401, 4800 Oak Grove Drive, Pasadena, CA 91103 USA

FEDYNSKI, Dr. A. B., Hydrometeorological Service USSR, Pavlika Morozova 12, Moscow, USSR

FEHSENFELD, Dr. F. C., Aeronomy Laboratory, National Oceanic and Atmospheric Administration, 325 Broadway, Boulder, CO 80303 USA

FEIN, Dr. R. S., Texaco Inc., P.O. Box 509, Beacon, NY 12508 USA

FEISTER, Mr. U., Main Meteorological Observatory, Meteorological Service DDR, Telegrafenberg, 1500 Potsdam, German Democratic Republic

FELDMAN, Dr. P. D., Physics Department, Johns Hopkins University, Baltimore, MD 21218 USA

FELDMAN, Dr. W., Los Alamos National Laboratory, M-D D-438, Los Alamos, NM 87545 USA

FELDSTEIN, Prof. Ya. I., Physics of the Magnetosphere, IZMIRAN, P O Akademgorodok, Moscow Region, USSR

FELLOUS, Dr. J. L., CNES, 2 Place Maurice Quentin, 75039 Paris Cedex 01, France

FELS, Dr. S. B., Geophysical Fluid Dynamics Laboratory, Princeton University, P.O. Box 308, Princeton, NJ 08540 USA

FENG, Dr. W. U., P.O. Box 985, Academia Sinica, Institute of Space Physics, Beijing, China

FERGUSON, Dr. E. E., Universite de Paris-Sud, Laboratoire de Physico-Chimie des Rayonnements, Batiment 350-Centre d'Orsay, 91405 Orsay Cedex, France

FERRARO, Dr. A. J., 319 Electrical Engineering East, The Pennsylvania State University, University Park, PA 16802 USA

FEYNMAN, Dr. J. F., Jet Propulsion Laboratory, 4800 Oak Grove Road, Pasadena, CA 91103 USA

FIGUEIRA, Dr. M. F., Instituto Nacional Meteorological Geofisico, Rua C Do Aeroporto de Lisboa, Lisbon 1700, Portugal

FINGER, Dr. F. G., National Meteorological Center, National Oceanic and Atmospheric Administration, W321, WWB, Room 201, Washington, DC 20233 USA

FINLAYSON, Dr. B. J., Department of Chemistry, California State University, Fullerton, CA 92634, USA

FIOCCO, Prof. G., Terrestrial Physics Department, University of Rome, Rome, Italy

FISCHER, Dr. H., Meteorologisches Institut, Munchen Universitat, Theresienstrasse 37, 8000, Munchen 2, Federal Republic of Germany

FISCHER, Dr. H. M., Institut fur Kernphysik, Universitat Kiel, Kiel 1, D-2300, Federal Republic of Germany

FISCHER, Dr. S. D., Geophysical Science Department, Georgia Institute of Technology, Baker Building, Room 123, Atlanta, GA 30332 USA

FISCHER, Mr. W. H., ZEQ 001 Pareglive B, Gilbert Association Inc., P.O. Box 1498, Reading, PA 19603 USA

FISHKOVA, Prof. L. M., Abastumani Astrophysical Observatory, Georgian Academy of Science, Abastumani, Georgian SSR, USSR

FISZDON, Prof. W., Uniwersytet Warzawski, Wycz Mat Mech, Pkin, Pok 936, Warsaw, Poland

FJARLIE, Dr. E. J., Royal Military College, Kingston, Ontario K7L 2W3, Canada

FLAUD, Dr. J. M., Laboratoire de Physique Moleculaire et d'Optique Atmosphereque, Campus d'Orsay, Bat 221, 91405 Orsay Cedex, France

FLEACLE, Prof. R. G., Department of Atmospheric Science, University of Washington AK-40, Seattle, WA 98195 USA

FLUCKIGER, Dr. E., Physkialisches Institut, Universitat Bern, Sidlerstrasse 5, Bern 3012, Switzerland

FOKKER, Dr. A. D., Sterrewacht Sonnenborgh, Servaas Bolwerk 13, Utrecht, The Netherlands

FOLLIN, Dr. J. W., Applied Physics Laboratory, Johns Hopkins University, Johns Hopkins Road, Laurel, MD 20810 USA

FONTAN, Dr. J., Universite Sabatier, 118 Route de Narbonne, 31062 Toulouse Cedex, France

FORBES, Dr. J. M., Department of Electrical, Computer, & Systems Engineering, Boston University, Boston, MA 02215 USA

FOREMAN, Mr. K. M., Grumman Aerospace Corporation, Mail Stop 408-35, Bethpage, NY 11714 USA

FOSTER, Dr. J. C., Millston Hill Field Station, Haystack Observatory, Westford, MA 01886 USA

FOUQUART, Mr., Laboratoire Opti. Atmos., Universite de Lille, 59650 Villeneuve d'Ascq 59650, France

FOX, Dr. J., Center for Astrophysics, Harvard University, 60 Garden Street, Cambridge, MA 02138 USA

FOX, Prof. K., Department of Physics, University of Tennessee, Knoxville, TN 37916 USA

FRANCIS, Dr. J. K., National Research Laboratory, Washington, D. C. 20375 USA

FRANCIS, Dr. S., Bell Laboratories, Whippany, NJ 07981 USA

FRANCISCO, Dr. P. J. V., Mail Stop 245-6, NASA Ames Research Center, Moffett Field, CA 94035 USA

FRASER, Dr. G. J., Department of Physics, University of Canterbury, Christchurch 1, New Zealand

FREDERICK, Dr. J. E., Atmospheric Chemistry Branch, NASA Goddard Space Flight Center, Greenbelt, MD 20771 USA

FREEMAN, Dr. D. E., Harvard College Observatory, 60 Garden Street, Cambridge, MA 02138 USA

FREIER, Dr. G. D., School of Physics, University of Minnesota, Minneapolis, MN 55455 USA

FREZAL, Dr. M. E., CRPE, CNET, 3 Avenue de la Republique, 92130 Issy-les-Moulineaux, France

FRICKE, Dr. K. H., Physikalisches Institut, Universitat Bonn, Nussallee 12, D 5300 Bonn 1, Federal Republic of Germany

FRIEDMAN, Dr. H., Code 7100, Naval Research Laboratory, 4555 Overlook Avenue, SW, Washington, DC 20390 USA

FRIEDRICH, Dr. M., Technical University of Graz, Inffeldgasse 12, A8010 Graz, Austria

FRIEND, Dr. J. P., Department of Chemistry, Drexel University, Philadelphia, PA 19104 USA

FRITTS, Dr. D. C., Geophysical Institute, University of Alaska, Fairbanks, AK 97701-0800 USA

FRITZ, Dr. M., Mail Stop 245-5, NASA Ames Research Center, Moffett Field, CA 94035 USA

FRITZ, Dr. S., Space Science Building, University of Maryland, College Park, MD 20740 USA

FRÖHLICH, Dr. C., Centre Mondial du Rayonnement, Davos 7270, Switzerland

FROMUTH, Mr. A. G., Suite 1120, 1001 Connecticut Avenue, NW, Washington, DC 10036 USA

FU, Mr. I. J., Chung-Li Radar Center, Department of Atmospheric Science, National Central University, Chung-Li, Taiwan, Republic of China

FUGONO, Dr. N., Radio Research Laboratories, 4-2-1 Nukui-kita, Koganei, Tokyo 184, Japan

FUKAO, Dr. S., Radio Atmospheric Science Center, Kyoto University, UJI, Kyoto 611, Japan

FUKUSHIMA, Dr. M., Radio Research Laboratory, 4-2-1 Nukui-kita, Koganei, Tokyo 184, Japan

FUKUSHIMA, Dr. N., Geophysical Research Laboratory, University of Tokyo, 7-3-1 Hongo, Bunkyo-ku, Tokyo 113, Japan

FUKUYAMA, Dr. K., Geophysical Institute, Kyoto University, Oiwake-cho, Kitashirakawa, Sakyo-ku, Kyoto 606, Japan

GABRIEL, Dr. A. H., Astrophysics Research Division, SRC Rutherford Appleton Laboratories, Didcot, Oxon OX11 0QX, United Kingdom

GADD, Dr. A. J., Meteorological Office, London Road, Bracknell, Berks., RG 12 252, United Kingdom

GADGIL, Dr. S., Centre for Theoretical Studies, Indian Institute of Science, Bangalore 560012, India

GADSDEN, Dr. M., Department of Natural Philosophy, University of Aberdeen, Aberdeen AB9 2UE, United Kingdom

GAGE, Dr. K. S., Aeronomy Laboratory, National Oceanic and Atmospheric Administration, 325 Broadway, Boulder, CO 80303 USA

GALBALLY, Dr. I. E., Division of Atmospheric Physics, CSIRO, P.O. Box 77, Mordialloc, Victoria 3195, Australia

GAL-CHEN, Dr. T., School of Meteorology, University of Oklahoma, Norman, OK 73019 USA

GALL, Dr. R., Instituto de Geofisica, Torre de Ciencias, Ciudad Universitaria, Mexico 20 DF, Mexico

GALLAGHER, Mr. C. C., Aeronomy Laboratory, LKD, Air Force Geophysics Laboratory, Hanscom Air Force Base, MA 01731 USA

GALLEGOS, Dr. J. M., 250 Quintard Avenue, Apartment 96, Chula Vista, CA 92011 USA

GALLI, Prof. M., Instituto di Fisica, Via Irnerio 46 - 40126, Bologna, Italy

GALPERIN, Dr. Yu. I., Space Research Institute, Academy of Sciences, 8Y/32
Profsoyuznaya Street, Moscow 117485, USSR

GAMMAN, Dr. R. H., Chemistry Department BG-10, University of Washington,
Seattle, WA 98195 USA

GAN, Dr. C. Y., Department of Physics, University of Arizona, Tucson, AZ
85721 USA

GANGULLY, Dr. S., Center for Remote Sensing, 8200 Greensboro Drive, Suite 800,
McLean, VA 22102 USA

GARCIA, Dr. R. R., National Center for Atmospheric Research, P.O. Box 3000,
Boulder, CO 80307 USA

GARDINER, Dr. B. G., Atmospheric Science Division, British Antarctic Survey,
Madingley Road, Cambridge, United Kingdom

GARDNER, Dr. C. S., Department of Electrical and Computer Engineering,
University of Illinois, 1406 West Green Street, Urbana, IL 61801 USA

GARG, Dr. S. C., National Physical Laboratory, Hillside Road, New Delhi
110012, India

GARRETT, Dr. H., MC 144-218, Jet Propulsion Laboratory, 4800 Oak Grove Drive,
Pasadena, CA 91109 USA

GATHMAN, Dr. S., Naval Research Laboratory, 4555 Overlook Avenue, SW,
Washington, DC 20375 USA

GATTINGER, Dr. R. L., Planetary Science Section, Herzberg Institute of
Astrophysics, National Research Council, Ottawa, Ontario K1A 0R8, Canada

GAY, Mr. B. W., US Environmental Protection Agency, MD-84, Research Triangle
Park, NC 27711 USA

GEISLER, Dr. J. E., Institute for Atmospheric Science, University of Miami,
Coral Gables, FL 33124 USA

GELINAS, Dr. R. J., Science Applications, Inc., Suite 104, 1811 Santa Rita
Road, Pleasanton, CA 94566 USA

GELLER, Dr. M. A., Code 610, NASA Goddard Space Flight Center, Greenbelt, MD
20771 USA

GELMAN, Mr. M. E., National Meteorological Center, National Oceanic and
Atmospheric Administration, RM 201 World Weather Building, W353, Camp
Springs, MD 20233 USA

GENDRIN, Dr. R. E., CNET/OPN, 92131 Issy-les-Moulineaux, France

GERARD, Dr. J. C., Institut d'Astrophysique, Universite de Liege, Avenue de
Cointe, B-4200 Ougree, Belgium

GERSTL, Dr. S. A. W., Theoretical Division, Los Alamos Scientific Laboratory,
T-Dot, MS 210, Los Alamos, NM 87545 USA

GHAZI, Dr. A., DG X11, SDM 2138, Commission of the European Communitier, Rue
de la Loi 200, B-1049 Brussels, Belgium

GHOSH, Mr. B., Radio Science Division, National Physical Laboratory, New Delhi 110012, India

GHOSH, Prof. S. N., Institute of Radiophysics and Electronics, Calcutta University, 92 Acharya Prafulla Chandra Road, Calcutta 700009, India

GIL, Mr. M., Grupos Cientificos, CONIE, INTA, Carretera Ajalvir, Torrejon de Ardoz 2, Spain

GILANI, Mr. S. I., Space Science and Research Division, Sparcent, P.O. Box 8402, Karachi 32, Pakistan

GILLE, Dr. J. C., National Center for Atmospheric Research, P.O. Box 3000, Boulder, CO 80307 USA

GIORGI, Prof. M., Cons. Naz. Delle Richerche, Piazzale Dell Scienze, Rome 7, Italy

GIRALDEZ, Dr. A. E., Avda del Libertador 327, Liara, 1638 Vincente Lopez, Buenos Aires, Argentina

GIRARD, Mr. A., ONERA, 29 Avenue de la Div. Leclerc, 92320 Chatillon S/Bagneux, France

GLASS, Dr. M., CRPE, CNET, 3 Avenue de la Republique, 92130 Issy-les-Moulineaux, France

GLEDHILL, Prof. J. A., Department of Physics, Rhodes University, P.O. Box 94, Grahamstown 6140, South Africa

GLODE, Dr. P., Aerologische Observatorium, Lindenberg/KRS Beeskow 1231, German Democratic Republic

GNANALINGAM, Dr. S., Department of Physics, Naval Post Graduate School, Monterey, CA 93943 USA

GO, Mrs. S. Y., P.O. Box 5112, Beijing, China

GODBY, Dr. E. A., Center for Remote Sensing, 2464 Sheffield Road, Ottawa, Ontario K1A 0Y7, Canada

GODSON, Dr. W. L., Atmospheric Environment Laboratory, 4905 Dufferin Street, Downsview, Ontario M3H 5T4, Canada

GOLDBERG, Dr. R. A., Code 961, NASA Goddard Space Flight Center, Greenbelt, MD 20771 USA

GOLDSMITH, Dr. P., Meteorological Office, London Road, Bracknell, RG12 2SZ, United Kingdom

GOLOMB, Dr. D., Center for Atmospheric Research, University of Lowell, 450 Aiken Street, Lowell, MA 01854 USA

GOMBOSI, Dr. T. I., Central Research Institute, P.O. Box 49, 1525 Budapest, Hungary

GOMEZ, Mr. J. C., CONIE, INTA, Pintor Rosales 34, Madrid 8, Spain

GOOD, Dr. R. E., LKD, Air Force Geophysics Laboratory, Hanscom Air Force Base, MA 01731 USA

GOODENOUGH, Dr. D. G., Methodology Section, 717 Belfast Road, Ottawa K1A 047,
Canada

GOODMAN, Dr. J. M., Ionospheric Effects Branch 4180, Naval Research
Laboratory, 4555 Overlook Avenue, SW, Washington, DC 20375 USA

GOODWIN, Dr. G. L., South Australian Institute of Technology, Box 1, Ingle
Farm, Australia 5098

GOODY, Prof. R. M., Division of Engineering and Applied Physics, Harvard
University, Cambridge, MA 02138 USA

GORDON, Dr. W. E., Department of Space Physics, Rice University, Houston, TX
77251-1892 USA

GOSSARD, Dr. E. E., R45/46, National Oceanic and Atmospheric Administration,
325 Broadway, Boulder, CO 80303 USA

GOUIN, Dr. P., Geophysics Observatory, Addis Ababa University, Box 1176, Addis
Ababa, Ethiopia

GOWARIKAR, Dr. V. R., Department of Science and Technology, Technology Bhavan,
New Mehrauli Road, New Delhi 110016, India

GRAMS, Dr. G. W., Department of Physical Sciences, Georgia Institute of
Technology, Atlanta, GA 30332 USA

GRANER, Prof. G., Laboratoire d'Infrarouge, Universite de Paris-Sud, 91405
Orsay, France

GRAS, Dr. J. L., Division of Cloud Physics, CSIRO, Box 134, Epping 2121,
Australia

GRASS, Dr. J., Division of Atmospheric Research, P.M.B. 1, Mordialloc, Victoria
3195, Australia

GRECHKOV, Dr. G. M., Institute of Atmospheric Physics, Moscow, USSR

GREEN, Dr. A. E. S., Department of Physics and Astronomy, University of
Florida, Gainesville, FL 32601 USA

GREEN, Mr. J. L., Aeronomy Laboratory, R 44, National Oceanic and Atmospheric
Administration, 325 Broadway, Boulder, CO 80303 USA

GREEN, Dr. J. S. A., Department of Physics, Imperial College, Prince Consort
Road, S. Kensington, London SW7 2BZ, United Kingdom

GREENBERG, Dr. L., D8/1205, The Aerospace Corporation, P.O. Box 92957, Los
Angeles, CA 90009 USA

GREER, Dr. R. G. H., Department of Physics, The Queens University, Belfast
BT7 1NN, Ireland

GREGORI, Dr. G. P., I.F.A., CNR, Sturzo 31, Rome 00144, Italy

GREISIGER, Dr. K. M., Akademie der Wissenschaften, Zentralinstitut fur STP,
Berlin 1199, German Democratic Republic

GRIEGER, Dr. N., Akademie der Wissenschaften, Zentralinstitut fur STP, Berlin
1199, German Democratic Republic

GROBECKER, Dr. A. J., Department of Atmospheric Science, University of California, Los Angeles, CA 90024 USA

GROSE, Dr. W. L., NASA Langley Research Center, Mail Stop 401B, Hampton, VA 23665 USA

GROVES, Prof. G. V., University College of London, Gower Street, London, WC1E 6BT, United Kingdom

GRZEDZIELSKI, Dr. S., Astronomical Observatory, Al Ujazdowskie 4, Warsaw 00-478, Poland

GUBERMAN, Dr. S. L., Smithsonian Institute Astrophysical Observatory, 60 Garden Street, Cambridge, MA 02138 USA

GUICHERIT, Dr. R., TNO Research Institute of Environmental Hygiene, Postbus 214, Delft 2600 AE, The Netherlands

GUNDERSEN, Dr. A., Space Activity Division, NINN, P.O. Box 309, Blindern, Oslo 3, Norway

GUPTA, Mr. R. K., National Remote Sensing Agency, Balanagar, Hyderabad 500037, India

GUPTA, Dr. S. P., Physical Research Laboratory, Navarangpura, Ahmedabad 380009, India

GURM, Dr. H. S., Department of Physics, Punjabi University, Patiala 147002, India

GURNEY, Dr. E. S., Department of Meteorology, 819 William Browning Building, University of Utah, Salt Lake City, UT 84112 USA

GUTHALS, Dr. P. R., CNC-7, Mail Stop 514, Los Alamos National Laboratory, P.O. Box 1663, Los Alamos, NM 87545 USA

GUY, Mr. V. F., Mail Stop 245-5, NASA Ames Research Center, Moffett Field, CA 94035 USA

HABERLAND, Dr. H., Fakultat Physik der Universitat, Hermann-Herder-Str 3, 7800 Freiburg im Breisgau, Federal Republic of Germany

HAEFNER, Prof. Dr. H., Geographisches Institut der Universitat, Blumlisalpstr 10, Zurich 8006, Switzerland

HAGFORS, Dr. T., National Astronomy and Ionosphere Center, Space Sciences Building, Cornell University, Ithaca, NY 14853 USA

HAKE, Dr. R. D., SRI International, 333 Ravenswood Avenue, Menlo Park, CA 94025 USA

HAKURA, Mr. Y., Faculty of Engineering, Saitama University, Urawa, Saitama 338, Japan

HALE, Prof. L. C., 1650 Cherry Hill Road, State College, PA 16801 USA

HALL, Dr. A. J., Rutherford Appleton Laboratory, Room 25, Chilton, Didcot, OXON OX11 0QX, United Kingdom

HALL, Dr. C. M., Department of Mathematics and Physical Science, University of Tromso, P. O. Box 952, N-9001, Tromso, Norway

HAMILTON, Mr. K., Department of Meteorology, McGill University, 805 Sherbrooke Street West, Montreal, Quebec, Canada H3A 2K6

HAMLIN, Dr. D. A., Science Applications Inc., 1200 Prospect Street, Box 2351, La Jolla, CA 92038 USA

HANSON, Dr. J. E., Goddard Institute for Space Studies, 2880 Broadway, New York, NY 10002 USA

HANSON, Dr. W. B., Center Space Science - F022, University of Texas, P.O. Box 688, Richardson, TX 75080 USA

HANST, Dr. P. L., Environmental Protection Agency, Research Triangle Park, NC 27711 USA

HAO, Dr. X., China Research Institute of Radiowave Propagation, P.O. Box 138, Xinxiang, Henan Province, China

HARD, Dr. T. M., Chemistry Department, Portland State University, Portland, OR 97207 USA

HARGREAVES, Dr. J. K., Department of Environmental Science, University of Lancaster, Bailrigg, Lancaster LA1 4YQ, United Kingdom

HARIHARN, Mr. T. A., Meteorological Division, Remote Sensing Area, Space Applications Centre, Ahmedabad 380053, India

HARRIES, Dr. J. E., Rutherford Appleton Laboratory, Chilton, Didcot, OXON OX11 0QX, United Kingdom

HARRIS, Dr. I., Code 641, NASA Goddard Space Flight Center, Greenbelt, MD 20771 USA

HARTKAMP, Prof. Dr. H., Gesamthochsch Anal Chemie, Naturwissenschaft II Fachbere 9, Gausstrasse 20 L-11.01, Wuppertal 2, 5600, Federal Republic of Germany

HARTMAN, Dr. D. L., Department of Atmospheric Science, AK40, University of Washington, Seattle, WA 98195 USA

HARTMANN, Dr. G., Max-Planck-Institut fur Aeronomie, Postfach 20, Katlenburg-Lindau 3, D-3411, Federal Republic of Germany

HARWOOD, Dr. R. S., Department of Meteorology, University of Edinburgh, Kings Buildings, Edinburgh EH9 3JZ, United Kingdom

HASEBE, Dr. F., Geophysical Institute, Kyoto University, Oiwake-cho, Kitashirakawa, Sakyo-ku, Kyoto 606, Japan

HAUCHECORNE, Dr. A., Service d'Aeronomie, CNRS, P. B. 3, 91370 Verrieres-le-Buisson, France

HAUCK, Mr. F., P.O. Box 397, Shelbyville, KY 40065 USA

HAUPT, Dr. I., Freie Universitat Berlin, WE 07, Dietrich-Schafer-weg 6-10, D-1000 Berlin 41, Federal Republic of Germany

HAYAKAWA, Dr. M., Research Institute of Atmospheric Sciences, Nagoya University, 3-13 Honohara, Toyokawa, Aichi 442, Japan

HAYAKAWA, Prof. S., Department of Physics, Nagoya University, Furo-cho, Chikusa-ku, Nagoya, Aichi 464, Japan

HEAPS, Dr. M. G., DELAS-EO-MO, US Army Atmospheric Sciences Laboratory, White Sands Missile Range, NM 88001 USA

HEATH, Dr. D. F., Code 963, NASA Goddard Space Flight Center, Greenbelt, MD 20771 USA

HECKMAN, Mr. G., SESC, National Oceanic and Atmospheric Administration, 325 Broadway, Boulder, CO 80303 USA

HEIDT, Dr. L., National Center for Atmospheric Research, P.O. Box 3000, Boulder, CO 80307 USA

HELGER, Mr. A., Swedish Space Corporation, Box 802, Esrange, Kiruna S 98128, Sweden

HEMMEN, Mr. G. E., SCAR Secretariat, Scott Polar Research Institute, Lensfield Road, Cambridge CB2 1ER, United Kingdom

HENRIKSEN, Dr. K., Auroral Observatory, University of Tromso, P. O. Box 953, N-9001, Tromso, Norway

HERDER, Dr. C. G., U.S. Department of Commerce, NOAA/MASC LIB RAS/MCS ACQ, 325 Broadway, Boulder, CO 80303 USA

HERGET, Dr. W. F., Mail Code MD-46, Environmental Protection Agency, Research Triangle Park, NC 27711 USA

HERNANDEZ, Dr. G., SPRL-AOS, University of Michigan, Ann Arbor, MI 48109-2143 USA

HERCUX, Dr. L., Headquarters, LKO, Air Force Geophysics Laboratory, Hanscom Air Force Base, MA 01731 USA

HERSE, Dr. M., Service d'Aeronomie, CNRS, P. B. 3, 91370 Verrières-le-Buisson, France

HERSHFIELD, Dr. D. M., Hydrology Laboratory, USDA-ARS, BARC-W, Building 007, Beltsville, MD 20705 USA

HEYMANN, Dr. G., CSIR, P.O. Box 395, Pretoria 0001, South Africa

HIDALGO, Dr. M. A., Facultad de Ciencias, University de Zaragoza, Zaragoza, Spain

HIDE, Dr. H., Meteorological Office, London Road, Bracknell, Berks., United Kingdom

HIEBLOT, Dr. J., CNRS, 15 Quai Anatole France, 75700 Paris, France

HIEI, Mr. E., Tokyo Astronomical Observatory, 2-21-1 Ozawa, Mitaka, Tokyo 181, Japan

HIGEL, Dr. B., CRPE/CNET, 37 Rue Saint Charles, F-88100, Saint Die, France

HILDNER, Dr. E., High Altitude Observatory, National Center for Atmospheric Research, P.O. Box 3000, Boulder, CO 80302 USA

HILL, Dr. R. D., P.O. Box 5484, Montecito, CA 93108 USA

HILSENRATH, Dr. E., Code 963, NASA Goddard Space Flight Center, Greenbelt, MD 20771 USA

HINGANE, Mr. L. S., Indian Institute of Tropical Meteorology, University Road, Shivajinagar, Pune 411005, India

HINTEREGGER, Dr. H. E., Headquarters, LKO, Air Force Geophysics Laboratory, Hanscom Air Force Base, MA 01731 USA

HINTON, Dr. B., Space Science and Engineering Center, 1225 West Dayton Street, Madison, WI 53706 USA

HIRAO, Prof. K., Institute of Space and Astronomical Science, University of Tokyo, 4-6-1 Komaba, Meguro-ku, Tokyo 153, Japan

HIRASAWA, Dr. T., National Institute for Polar Research, 1-9-10 Kaga, Itabashi-ku, Tokyo 173, Japan

HIRONO, Dr. M., Department of Physics, Kyushu University, 6-10-1 Hakozaki, Higashi-ku, Fukuoka 812, Japan

HIROOKA, Dr. T., Meteorological Laboratory, Department of Geophysics, Kyoto University, Kyoto 606, Japan

HIROTA, Dr. I., Faculty of Science, Kyoto University, Oiwake-cho, Kitashirakawa, Sakyoku, Kyoto 606, Japan

HITCHMAN, Dr. M. H., National Center for Atmospheric Research, P.O. Box 3000, Boulder, CO 80307 USA

HIXON, Mr. B. R., Code 3252, Pacific Missile Test Center, Point Mugu, CA 93042 USA

HO, Mr. C., 5/F BK "A", 158 Belcher's Street, Hong Kong

HOCKING, Dr. W. K., Physics Department, University of Adelaide, GPO Box 498, Adelaide, Australia 5001

HOEGY, Dr. W., Code 621, NASA Goddard Space Flight Center, Greenbelt, MD 20771 USA

HOFFMAN, Dr. J. H., PO 2.2, University of Texas at Dallas, P.O. Box 688, Richardson, TX 75080 USA

HOFMANN, Dr. D. J., Department of Physics and Astronomy, University of Wyoming, Laramie, WY 82071 USA

HOGG, Dr. D. C., R 45 X4, National Oceanic and Atmospheric Administration, 325 Broadway, Boulder, CO 80303 USA

HOUGER, Dr. B., Service des Instruments, Station Aerologique, CH-1530 Payerne, Switzerland

HOLDEN, Dr. D. N., Department of Physics and Astronomy, Clemson University, Clemson, SC 29631 USA

HOLOPAINEN, Prof. E., University of Helsinki, Department of Meteorology,
Hallituskatu 11-13, SF - 00100 Helsinki, Finland

HOLTET, Dr. J. A., Norsk Polarinstitutt, P. O. Box 158, N-1330, Oslo Lufthavn,
Norway

HOLTON, Dr. J. R., Department of Atmospheric Science, University of
Washington, Seattle, WA 98100 USA

HOLZWORTH, Prof. R., Geophysics, AK-50, University of Washington, Seattle, WA
98195 USA

HONG, Dr. S.-S., Department of Atmospheric Physics, National Center
University, Chung-LI 320, Taiwan, Republic of China

HOOD, Dr. L. L., Lunar and Planetary Laboratory, University of Arizona,
Tucson, AZ 85721 USA

HORAK, Dr. H. G., Group J10, Los Alamos Scientific Laboratory, Los Alamos, NM
87545 USA

HORAN, Dr. D. M., Code 4175 H, Naval Research Laboratory, 4555 Overlook
Avenue, SW, Washington, DC 20375 USA

HORNSTEIN, Dr. J., Code 6509, Naval Research Laboratory, Washington, DC 20375
USA

HORTON, Dr. B. H., Department of Physics, University of Adelaide, Box 498,
Adelaide 5001, Australia

HOUGHTON, Prof. J. T., Rutherford Appleton Laboratory, Chilton, Didcot, OXON
OX11 0QX, United Kingdom

HSIEH, Dr. K. C., Department of Physics, University of Arizona, Tucson, AZ
85721 USA

HSU, Ms. C.-P. F., Geophysical Fluid Dynamics Program, Princeton University,
P.O. Box 308, Princeton, NJ 08540 USA

HUANG, Dr. Y.-N., Telecommunication Training Institute, No. 168 Min Chu Road,
Pan Chiao, Taipei Hsien 22077 Taiwan, Republic of China

HUDSON, Dr. R. D., Code 963, NASA Goddard Space Flight Center, Greenbelt, MD
20771 USA

HULTQVIST, Dr. B. K. G., Kiruna Geophysical Institute, P.O. Box 704, Kiruna
S-98127, Sweden

HUNG, Dr. R. J., Department of Mechanical Engineering, The University of
Alabama, P.O. Box 1247, Huntsville, AL 35807 USA

HUNSUCKER, Dr. R., Geophysical Institute, University of Alaska, Fairbanks, AK
99701 USA

HUNT, Dr. B. G., CSIRO, Division of Atmospheric Research, Private Bag 1,
Mordialloc, Victoria 3195, Australia

HUNT, Mr. D., National Oceanic and Atmospheric Administration Headquarters,
RD 2, 6010 Executive Boulevard, Rockville, MD 20852 USA

HUNTER, Dr. D. M., Lunar and Planetary Laboratory, University of Arizona,
Tucson, AZ 85721 USA

HUNTRESS, Dr. W. T., Mail Stop 183 401, Jet Propulsion Laboratory, 4800 Oak
Grove Drive, Pasadena, CA 91103 USA

HUO, Prof. H.-H., Section of Space Physics, Department of Geophysics, Beijing
University, Beijing, China

HUSAIN, Dr. L, Division of Laboratories and Research, New York State Depart-
ment of Health, Albany, NY 12201 USA

IBANEZ, Mr. J., Com. Nac. Invest. del Espacio, Grupos Cientificos, DSSPO,
Pintor Rosales 34, Madrid 8, Spain

IERNIC, Dr. H. M., Arecibo Observatory, P.O. Box 995, Arecibo, Puerto Rico

ILYAS, Dr. M., School of Physics, University of Sciences, Penang, Malaysia

IMSHENETSKY, Acad. A. A., Institute of Microbio, Academy Sciences,
Profsoyuznaya 7, Moscow 117113, USSR

INDIRA, Miss, Indian Institute of Tropical Meteorology, University Road,
Shivajinagar, Pune 411005, India

INGELS, Dr. J. J. T., Belgian Institute for Space Aeronomy, Ringlaan 3, B-1180
Brussels, Belgium

INNESTER, Dr. B., Max-Planck-Institut fur Aeronomie, Postfach 20, D-3411
Katlenburg-Lindau 3, Federal Republic of Germany

INTRILIGATOR, Dr. D. S., Carmel Research Center, P.O. Box 1732, Santa Monica,
CA 90406 USA

ION, Dr. H., Applied Science Division, 2771 N. Garey Avenue, P.O. Box 2801,
Pomona, CA 91769 USA

IRELAND, Mr. W., Physics and Engineering Laboratory, Private Bag, Lower Hutt,
New Zealand

ISHIDA, Mr. Y., Department of Physics, Fukushima University, 2 Sugumichi,
Asakawa, Matsukawa-Machi, Fukushima 960-12, Japan

ISHIKAWA, Dr. H., Research Institute of Atmospheric, Nagoya University, 3-13
Honohara, Toyokawa, Aichi 442, Japan

ISHIMINE, Mr. T., Hiraiso Solar Terrestrial Research Center, Ministry of Posts
and Telecommunications, 3601 Isozaki, Nakaminato, Ibaraki 311-12,
Japan

ISONO, Dr. K., 4-22-8 Mejiro Toshima-ku, Tokyo, Japan

ISOZAKI, Mr. S., Radio Research Laboratory, Iimbo Observatory, 9961 Tennodai,
Choshi, Chiba 288, Japan

ITCH, Prof. T., Institute of Space and Astronomical Science, 4-6-1 Komaba,
Meguro-ku, Tokyo 153, Japan

IVANOV-KHOLODNY, Dr. G. S., IZMIRAN, 14209 Troitsk, Moscow Region, USSR

IVERSEN, Dr. I. B., Danish Space Research Institute, Lundtoftevej 7, Lyngby 2800, Denmark

IWAMOTO, Mr. I., Radio Research Laboratory, Ministry of Posts and Telecommunications, 4-2-1 Nukui-Kita, Koganei, Tokyo 184, Japan

IWASAKA, Dr. Y., Water Research Institute, Nagoya University, Furo-cho, Chikusa-ku, Nagoya, Aichi 464, Japan

IYER, Dr. K. N., Department of Physics, Sourashtra University, Kalavat Road, Rajkot 360005, India

IZAKOV, Dr. M. N., Institute for Space Research, Profsoyuznaya 88, Moscow 116113 USSR

JACKA, Dr. F. J., Mawson Institute for Antarctic Research, University of Adelaide, GPO Box 498, Adelaide 5001, Australia

JACKMAN, Dr. C. H., Code 616, NASA Goddard Space Flight Center, Greenbelt, MD 20771 USA

JACKSON, Mr. E. B., Field Measurement Support Office, NASA Wallops Flight Center, Wallops Island, VA 23337 USA

JAFRI, Dr. S. A., Space Science and Research, Sparcent, Box 8402, Karachi-32, Pakistan

JAIN, Dr. A. R., National Physical Laboratory, Hillside Road, New Delhi 110012, India

JAIN, Dr. S. L., National Physical Laboratory, Hillside Road, New Delhi 110012, India

JAIN, Dr. V. C., National Physical Laboratory, Hillside Road, New Delhi 110012, India

JAMMET, Mr. H., USSR Tallinn, 200033, Tammsaare 127-2, Tallinn, Estonia, USSR

JANI, Dr. K. G., Gujarat University, Navrangpura, Ahmedabad 380009, India

JAPAR, Dr. S., Research Staff, Ford Motor Company, P.O. Box 2053, Dearborn, MI 48121 USA

JARVIS, Dr. M. J., British Antarctic Survey, High Cross Madingley Road, Cambridge CB3 0ET, United Kingdom

JAYARAMAN, Mr. A., Physical Research Laboratory, Navrangpura, Ahmedabad 380009, India

JAYARAMAN, Mr. P. N., ISRO Headquarters, Cauvery Bhavan, K.G. Road, Bangalore 560009, India

JEGOU, Dr. J. P., S.A. CNRS, BP 3, 91370 Verrieres-le-Buisson, France

JENSEN, Mr. V. N., Division of Geophysics, Danish Meteorological Institute, Lyngbyvej 100, Copenhagen DK 2100, Denmark

JOHNSON, Dr. D. L., ED44, NASA Marshall Space Flight Center, Alabama 35812 USA

JOHNSON, Mr. D. W., Battelle Northwest, P.O. Box 999, Richland, WA 99352 USA

JOHNSON, Dr. F. S., University of Texas at Dallas, Box 688, F O 22, Richardson, TX 75080 USA

JOHNSON, Prof. H. S., Department of Chemistry, University of California, Berkeley, CA 94720 USA

JONES, Prof. L. W., Department of Physics, University of Michigan, Ann Arbor, MI 48109 USA

JONES, Dr. T. B., Department of Physics, Leicester University, University Road, Leicester LE1 7RH, United Kingdom

JONSSON, Dr. G., University of Lund, Solvegatan 14, Lund 5-22362, Sweden

JORGENSEN, Dr. T. S., Division of Geophysics, Danish Meteorological Institute, Lyngbyvej 100, Copenhagen 2100, Denmark

JOSEPH, Prof. J. H., Department of Geophysics and Planetary Science, Tel-Aviv University, Tel-Aviv 69978, Israel

JOU, Dr. B. J., Department of Atmospheric Physics, National Taiwan University, Taipei, Taiwan, Republic of China

JOUVE, Dr. P., Faculte des Sciences, BP 347, 51062 Reims, France

JUAN, Dr. V. C., Faculty of Science, National University, Roosevelt Road, Taipei, Taiwan, Republic of China

JUNOD, Dr. A., Division of Applications Stat Aero, Institut Suisse de Meteorologie, Payerne 153, Switzerland

JUSTUS, Dr. C. G., School of Aerospace Engineering, Georgia Institute of Technology, Atlanta, GA 30332 USA

KAISER, Prof. T. R., Department of Physics, University of Sheffield, Hicks Building, Sheffield S3 7RH, United Kingdom

KAMADA, Dr. T., Research Institute of Atmospheric Sciences, Nagoya University, 3-13 Honchara, Toyokawa, Aichi 442, Japan

KAMIDE, Dr. Y., Kyoto Sangyo University, Kamigamo, Kita-ku, Kyoto 603, Japan

KAMIYAMA, Prof. H., Upper Atmosphere Research Laboratory, Tohoku University, Aramaki-Aoba, Sendai, Miyagi 980, Japan

KANBO, Dr. K., Tokyo University, 7-3-1 Hongo, Bunkyo-ku, Tokyo 113, Japan

KANG-KUN, Prof. T., Division of Geomagnetic and Solar Terrestrial Physics, Institute of Geophysics, Academia Sinica, P. O. Box 928, Beijing, China

KANNO, Prof. T., Department of Physics, Fukushima University, 2 Sugumichi, Asakawa, Matsukawa-Machi, Fukushima 960-12, Japan

KANTOR, Dr. I., Instituto de Pesquisas Espaciais, Caixa Postal 515, Sao Jose Dos Campos, 12200 Sao Paulo, Brazil

KANZAWA, Dr. H., National Institute of Polar Research, 1-9-10 Kaga Itabashi-ku, Tokyo 173, Japan

KARIMOV, Dr. K. A., Laboratory of Atmospheric Processes, Institute of Physics and Mathematics, Lenevin Avenue, 265A Frunze, Kirghiz SSP 720071, USSR

KARJOTO, Mr. S., National Aeronautical and Space Institute (LAPAN), DJL Pemuda Persil No. 1, Djakarta, Indonesia

KAROL, Dr. I. L., Voeikov Main Geophysical Observatory, 7 Karbyshev Street, Leningrad 194018, USSR

KASAHARA, Dr. A., National Center for Atmospheric Research, Box 3000, Boulder, CO 80307 USA

KASELAU, Dr. K. H., Institut fur Geophysik, Universitat zu Koeln, Albertus-Magnus-Platz, Koeln 41, D-5000, Federal Republic of Germany

KASHCHEEV, Dr. B. L., Institute of Radioelectronics, 14 Lenin Street, Karkov 310059, USSR

KASSNER, Mr. J. L., Graduate Center for Cloud Physics Research, University of Missouri, Rolla, MO 65401 USA

KASTALSKY, Dr. V., University of New South Wales, P.O. Box 1, Kensington, NSW, Australia 2033

KASTURIRANGAN, Dr. K., SEO, ISRO Satellite Centre, A 1-6 Peenya Industrial Estate, Peenya, Bangalore 560058, India

KATAJA, Dr. E. I., Geophysical Observatory, Sodankyla SF 99600, Finland

KATO, Prof. S., Radio Atmospheric Science Center, Kyoto University, Gokanosho, UJI, Kyoto 611, Japan

KAUFMAN, Dr. F., Department of Chemistry, University of Pittsburgh, 216 SRCC Building, Pittsburgh, PA 15260 USA

KAWAGUCHI, Dr. S., National Institute of Polar Research, 1-9-10 Kaga, Itabashi-ku, Tokyo 173, Japan

KAWAHIRA, Dr. K., Meteorological Laboratory, Department of Geophysics, Kyoto University, Kyoto 606, Japan

KAWAMURA, Dr. M., Kakioka Magnetic Observatory, 595 Kakioka, Yasato-Machi, Niihari-gun, Ibaraki 315-01, Japan

KAWASHIMA, Dr. N., Institute of Space and Aeronautical Science, 4-6-1 Komaba, Meguro-ku, Tokyo 153, Japan

KAZIMIROVSKY, Dr. E. S., SIBIZMIR, P.O. Box 4, Irkutsk 33, USSR

KEATING, Dr. G. M., Mail Stop 401B, NASA Langley Research Center, Hampton, VA 23185 USA

KEITZ, Dr. E. L., The Mitre Corporation, 1820 Dolley Madison, McLean, VA 22102 USA

KELDER, Dr. H., Division of Geophysics, Royal Netherlands Meteorological Institute, P. O. Box 201, De Bilt 3730 AE, The Netherlands

KELLEY, Dr. M., Phillips Hall, Cornell University, Ithaca, NY 14853 USA

KELLEY, Dr. P. L., Lincoln Laboratory, Massachusetts Institute of Technology,
244 Wood Street, P.O. Box 73, Lexington, MA 02173 USA

KELLY, Dr. F. J., Code 4183, Naval Research Laboratory, Washington, DC 20375
USA

KENESHEA, Dr. T. J., Air Force Geophysics Laboratory, Hanscom Air Force Base,
MA 01731 USA

KENNEALY, Dr. J. P., OPR-1, Air Force Geophysical Laboratory, Hanscom Air
Force Base, MA 01731 USA

KENT, Dr. G., IFAORS, P.O. Box P, Hampton, VA 23666 USA

KERLIN, Lt. Col. J., Air Force Global Weather Center/TS, Offutt Air Force
Base, NE 68113 USA

KERSLEY, Dr. L., Department of Physics, University College of Wales, Pengais,
Aberystwyth, SY23 3BZ, United Kingdom

KERWIN, Prof. L., Physics Department, Laval University, Quebec 10,
P.Q. G1K 7P4, Canada

KESHAVAMURTHY, Dr. K. N., Physical Research Laboratory, Navrangpura, Ahmedabad
380009, India

KEY, Dr. P. J., Division of Quantum Meteorology, National Physical Laboratory,
Teddington, Middlesex TW11 OLW, United Kingdom

KEYS, Mr. J. G., Pel Atmospheric Station, DSIR, Private Bag, Omakau, New
Zealand

KHALIL, Dr. M. A. K., Department of Environmental Science, Oregon Graduate
Center, 19600 NW Walker, Beaverton, OR 97005 USA

KHOSHOO, Dr. T.N., CSIR, Tata Energy Research Institute, 7 Jor Bagh, New
Delhi 110003, India

KHARIN, Dr. E. P., World Data Center B2, Molodezhnaya 3, Moscow GSP-1,
117 296, USSR

KIDA, Dr. K., Meteorological Research Institute, 1-1 Nagamine, Yatabe-Machi,
Tsukuba-gun, Ibaraki 305, Japan

KIKUCHI, Dr. T., Radio Research Laboratory, 4-2-1 Nukui-kita, Koganei, Tokyo
184, Japan

KIM, Prof. J. S., Department of Atmospheric Science, State University of New
York, Albany, NY 12222 USA

KIMPARA, Prof. Dr. A., Mejiro Heights Institute, 3-17-41 Shimo-Ochiai,
Shinjuku-ku, Tokyo 101, Japan

KING, Dr. J. W., Rutherford Appleton Laboratories, Chilton, Didcot, OXON OX11
OQX, United Kingdom

KING-HELE, Dr. D. G., Royal Aircraft Establishment, Farnborough, Hants.,
United Kingdom

KINGSLEY, Dr. S. P., Physics Department, Sheffield University, Sheffield S3 7RH, United Kingdom

KITAGAWA, Prof. N., Saitama University, Shimo-Okubo 255, Urawa-shi, Saitama 338, Japan

KITAMURA, Dr. M., Meteorological Research Institute, 1-1 Nagamine, Yatabe-Machi, Tsukuba-gun, Ibaraki 305, Japan

KITAMURA, Dr. T. I., Department of Physics, Kyushu University 33, 6-10-1 Hakozaki, Higashi-ku, Fukuoka 812, Japan

KITROSSER, Dr. D. F., Center for Atmospheric Research, University of Lowell, 450 Aiken Street, Lowell, MA 01854 USA

KLAINER, Dr. S. M., Block Engineering Inc., 19 Blackstone Street, Cambridge, MA 02139 USA

KLEINMANN, Dr. D. E., Honeywell Electromagnetic Optics MS65, 2 Forbes Road, Lexington, MA 02173 USA

KLENK, Dr. K. F., Systems and Applied Science Corporation, 5809 Annapolis Road, Hyattsville, MD 20784 USA

KLIMOV, Dr. N. N., Siberian Institute of Magn, Ionosphere and Radio Propagation, Tzutsk 33 P/B 4, USSR

KLOSTERMEYER, Dr. J., Max-Planck-Institut fur Aeronomie, Katlenburg-Lindau 3, D-3411, Federal Republic of Germany

KNUTH, Prof. Dr. R., Institut fur Kosmosforschung, Akad Wissenschaften, Rudower Chaussee, Berlin-Adlershof 1199, German Democratic Republic

KOCKARTS, Dr. G., Institut d'Aeronomie Spatiale de Belgique, 3 Avenue Circulaire, B-1180 Brussels, Belgium

KODAIRA, Dr. N., Meteorological Research Institute, 1-1 Nagamine, Yatabe-Machi, Tsukuba-gun, Ibaraki 305, Japan

KODERA, Mr. K., Meteorological Research Institute, 1-1 Nagamine, Yatabe-Machi, Tsukuba-gun, Ibaraki 305, Japan

KOECRELENBERGH, Dr. A., Sunspot Index Data Center, 3 Avenue Circulaire, B-1180 Brussels, Belgium

KOERMER, Dr. J. P., Department of Meteorology, University of Utah, Salt Lake City, UT 84112 USA

KOEFMAN, Dr. W., CEPHAG, BP 46, 38042 St. Martin d'Heres, France

KOFSKY, Dr. I. L., Photometrics, Inc., 4 Arrow Drive, Woburn, MA 01801 USA

KOHL, Dr. H., Max-Planck-Institut fur Aeronomie, Katlenburg-Lindau 3, D-3411, Federal Republic of Germany

KOHNO, Dr. T., Institute of Physical and Chemical Research, Kaga 1-7-13, Itabashi, Tokyo 173, Japan

KOIDKE, Mr. T., Meteorological Research Institute, 1-1 Nagamine Yatabe-Machi,
Tsukuba-gun, Ibaraki 305, Japan

KOIZUMI, Dr. T., Radio Research Laboratory, 2-3-20 Midori, Wakkanai, Hokkaido
097, Japan

KOLAWOLE, Dr. L. B., Department of Physics, University of Ife, Ile-Ife,
Nigeria

KOMABAYASHI, Dr. M., Planning Division, Japan Meteorological Agency, 1-3-4
Ote-Machi, Chiyoda-ku, Tokyo 100, Japan

KONDRATYEV, Prof. K. Ya., Laboratory of Remote Sensing, USSR Academy of
Sciences, Sevastyanov Street, 9, 196199, Leningrad, USSR

KONIG, Dr. P. J., Department of Physics, P.U. for C.H.E., Potschfstrom 2520,
South Africa

KONTAREV, Dr. G. R., Department of Numerical Mathematics, Academy of Sciences,
11 Gorki Street, Moscow, USSR

KOPECKY, Dr. M., Astronomical Institute, Czechoslovak Academy of Sciences,
25165 Ondrejov, Czechoslovakia

KOPP, Dr. E., Physikalisches Institut, University of Bern, Sidlerstrasse 5,
Bern CH 3012, Switzerland

KOSHELKOV, Yu. P., Central Aerological Observatory, USSR State Committee on
Hydrometeorology, Moscow 123376, USSR

KOTADIA, Dr. K. M., Department of Physics, Gujarat University, Ahmedabad
380009, India

KRANKOWSKY, Dr. D., Max-Planck-Institut, P.O. Box 103980, Heidelberg 6900,
Federal Republic of Germany

KRASSOVSKY, Prof. V. I., Institute of Physics of the Atmosphere, USSR Academy
Sciences, Pyzhevsky Per. 3, Moscow 109017, USSR

KREISS, Dr. W. T., Physical Dynamics, Inc., P.O. Box 3027, Bellevue, WA 98009
USA

KRISES, Dr. W. D., Boeing Aerospace Company, M.S. BK-16, P. O. Box 3999,
Seattle, WA 98124-2499 USA

KRISHNAMURTHY, Dr. B. V., Space Physics Division, Vikram Sarabhai Space Centre,
Trivandrum 695002, India

KRISHNAMURTHY, Dr. K., Space Physics Laboratory, Vikram Sarabhai Space Centre,
ISRO P.O Trivandrum 695022, India

KRUEGER, Dr. A. J., Code 963, NASA Goddard Space Flight Center, Greenbelt, MD
20771 USA

KRUGER, Dr. W., Zentral Institut fur Solar Terrestrial Physics, Akad
Wissenschaften, Berlin 1199, German Democratic Republic

KRULL, Mr. N., Room 431, AEE-30, Federal Aviation Administration, 800
Independence Avenue, SW, Washington, D. C. 20592 USA

KUHN, Dr. G. J., Magnetic Observatory, P.O. Box 32, Hermanus 7200, South Africa

KUHN, Dr. W. R., Department of Atmospheric and Oceanic Science, University of Michigan, Space Physics Building, North Campus, Ann Arbor, MI 48109 USA

KUKLA, Dr. G., Lamont Observatory, Palisades, NY 10964 USA

KULGEIN, Dr. N. G., 52-13/B201, Lockheed Research Laboratory, 3251 Hanover Street, Palo Alto, CA 94304 USA

KULKARNI, Dr. R. N., Division of Atmospheric Physics, CSIRO, Station Street, Aspendale, Victoria 3195, Australia

KULSHRESTHA, Dr. S. M., India Meteorological Department, Lodi Road, New Delhi 110003, India

KUMAR, Mr. S., Department of Physics and Astrophysics, University of Delhi, New Delhi 110007, India

KUNDAPURKAR, Mr. R. U., TIFR Balloon Facility, ECIL Post, P. B. 5, Hyderabad 500762, India

KUNDE, Dr. V. G., Code 693.2, NASA Goddard Space Flight Center, Greenbelt, MD 20771 USA

KUNDU, Prof. M. R., Astronomy Program, University of Maryland, College Park, MD 20742 USA

KUNDU, Dr. (Mrs.) N., National Physical Laboratory, Hillside Road, New Delhi 110012, India

KUNZI, Dr. K., Institut of Applied Physik, University of Bern, Sidlerstrasse 5, Bern, Switzerland

KURIYAN, Dr. J. G., Department of Meteorology, University of California, Los Angeles, CA 90024 USA

KURUP, Mr. M. R., SHAR Centre, Nellore District, Sriharikota 524124, India

KURYLO, Dr. M., Code EEU, NASA Headquarters, Washington, D. C. 20546

KUTZBACK, Prof. J. E., University of Wisconsin, 1225 W Dayton Street, Madison, WI 53706 USA

KUWASHIMA, Mr. M., Kakioka Magnetic Observatory, 595 Kakioka Yasato-Machi, Niihara-gun, Ibaraki 315-01, Japan

KVIFTE, Dr. G., Department of Physics and Meteorology, Agricultural University of Norway, Box 19, AAS-NLG 1432, Norway

LABITZKE, Prof. Dr. K., Institut fur Meteorologie, Freie Universitat, FB24-WE07, Dietrich-Schafer-Weg 6-8, D-1000 Berlin 41, Federal Republic of Germany

LABS, Prof. D., Landessternwarte-Konigstuhl, Heidelberg 1, D-6900, Federal Republic of Germany

LADOBORDOVSKY, Melle. O., Laboratoire de Physique, Bat 221, Campus d'Orsay, 91405 Orsay, France

LAGOS, Dr. P., Observatorio de Jicamarca, Instituto Geofisico del Peru,
Apartado 3747, Lima 100, Peru

LAKSHMI, Miss K. R., SPL, Vikram Sarabhai Space Centre, ISRO P.O., Trivandrum
695022, India

LAL, Prof. D., Physical Research Laboratory, Navrangpura, Ahmedabad
380009, India

LALLY, Dr. V. E., National Center for Atmospheric Research, P.O. Box 3000,
Boulder, CO 80307 USA

LAMBERT, Dr. G., Centre des Faibles Radioact., Centre National de la Recherche
Scientifique, Gif-Sur-Yvette 91190, France

LANE-SMITH, Dr. D., Barringer Research, 304 Carlingview Drive, Rexdale, Ontario
M9W 5G2, Canada

LANGE-HESSE, Dr. R. G., Max-Planck-Institut fur Aeronomie, Katlenburg-Lindau
3, D-3411, Federal Republic of Germany

LANGNER, Dr. A., Linder Hoehe, DFVLF-PT/WF, Cologne 90, D-5000, Federal
Republic of Germany

LANZEROTTI, Dr. L. J., Bell Telephone Laboratories, 600 Mountain Avenue, Murray
Hill, NJ 07974 USA

LAPORTE, Mr. D., Santa Barbara Research Center, 75 Coromar Drive, Goleta, CA
93117 USA

LARABEE, Dr. J., Lockheed Missiles and Space, Building 581, ORG 61-08, P.O.
Box 3504, Sunnyvale, CA 94088-3504 USA

LARSEN, Dr. M. F., Department of Physics and Astronomy, Clemson University,
Clemson, SC 29631 USA

LARSEN, Dr. S. H. H., Institute of Physics, University of Oslo, P.O. Box 1038,
Blindern, Oslo 3, Norway

LASSEN, Dr. K., Danish Meteorological Institute, Lyngbyvej 100, Copenhagen
2100, Denmark

LASTOVICKA, Dr. J., Geophysical Institute, Czechoslovak Academy of Science,
Bocni II, 141 31 Praha 4, Czechoslovakia

LAURIE, Mr. V. J., ORD/OMSQA (RD-680), US Environmental Protection Agency, 1916
Severn Grove Road, Annapolis, MD 21401 USA

LAURSEN, Dr. V., Drajogade 40, DK 2100, Copenhagen, Denmark

LAVAKARE, Dr. P. J., Department of Science and Technology, Technology Bhavan,
New Mehrauli Road, New Delhi 110016, India

LAVER, Dr. J. D., National Meteorological Center, National Oceanic and
Atmospheric Administration, Camp Springs, MD 20233 USA

LAZRUS, Dr. A. L., National Center for Atmospheric Research, P.O. Box 3000,
Boulder, CO 80307 USA

LEAN, Ms. J., SEL, 1-2119, National Oceanic and Atmospheric Administration, 325 Broadway, Boulder, CO 80303 USA

LEBRAS, Dr., Universite d'Orleans, C.R.C.C.H.T., 45045 Orleans Cedex, France

LEDLEY, Dr. B., Code 696, NASA Goddard Space Flight Center, Greenbelt, MD 20771 USA

LEE, Dr. H. S., Ionosphere Research Laboratory, The Pennsylvania State University, University Park, PA 16802 USA

LEE, Dr. Y.-P., Department of Chemistry, National Tsing-hua University, Hsin-chu, Taiwan, Republic of China

LEHMAN, Dr. R. L., National Oceanic and Atmospheric Administration, US Department of Commerce, Room 5813, Washington, DC 20230 USA

LEIFER, Dr. R., Health and Safety Laboratory, US ERDA, 376 Hudson Street, New York, NY 10014 USA

LEMAIRE, Dr. J., Institute d'Aeronomie Spatiale de Belgique, 3 Avenue Circulaire, B-1180 Brussels, Belgium

LENOBLE, Dr. J., Universite Lille I, P 36, 59650 Villeneuve d'Asq, France

LEOVY, Dr. C. B., Department of Atmospheric Science, AK-40, University of Washington, Seattle, WA 98195 USA

LESCLAUX, Dr. R., Chimie-Physique A, Universite de Bordeaux I, 33405 Talence, France

LEVINE, Dr. D. M., Code 946, NASA Goddard Space Flight Center, Greenbelt, MD 20771 USA

LEVIS, Prof. C. A., Ohio State University, 1320 Kinnear Road, Columbus, OH 43212 USA

LEVY, Dr. H., Geophysics Fluid Dynamics Laboratory, Princeton University, P.O. Box 308, Princeton, NJ 08540 USA

LEWIS, Dr. L. J., Department of Physics and Atmospheric Science, Jackson State University, Jackson, MS 39217 USA

LI, Mr. J., Wuhan Institute of Physics, Academia Sinica, P.O. Box 241, Wuhan, Hubei, China

LI, Mr. X.-Q., Purple Mountain Observatory, Academia Sinica, Nanjing, China

LIN, Dr. P.-L., Department of Atmospheric Physics, National Central University, Chung-Li, Taiwan 320, Republic of China

LINDBLAD, Dr. B. A., Lund Observatory, Svane Gatan 9, Lund S22224, Sweden

LINDZEN, Dr. R., Pierce Hall, Room 107C, Harvard University, Cambridge, MA 02138 USA

LINKOVSKY, Dr. M. J., Applied Physics Laboratory, Johns Hopkins University, Laurel, MD 20707 USA

LINSON, Dr. L. M., Science Applications, Inc., 1200 Prospect Street, Box 2351,
La Jolla, CA 92037 USA

LIPPENS, Mr. C., Belgian Institute for Space Aeronomy, Ringlaan 3, B-1180,
Brussels, Belgium

LITTLE, Dr. C. G., National Oceanic and Atmospheric Administration ERL/WPL,
325 Broadway, Boulder, CO 80303 USA

LIU, Prof. C. H., Department of Electrical and Computer Engineering,
University of Illinois, 1406 West Green Street, Urbana, IL 61801 USA

LIU, Prof. Q., Institute of Space Physics, P.O. Box 5112, Beijing, China

LIU, Prof. Q.-L., P.O. Box 2701, Beijing, China

LIU, Dr. S., Aeronomy Laboratory, National Oceanic and Atmospheric Administration, 325 Broadway, Boulder, CO 80303 USA

LIU, Dr. S. C., Space Research Laboratory, University of Michigan, Ann Arbor,
MI 48105 USA

LIU, Prof. Z.-X., P.O. Box 5112, Beijing, China

LLEWELLYN, Dr. E. J., Physics Department, University of Saskatchewan,
Saskatoon, Saskatchewan, S7N 0W0, Canada

LOITIERE, Mr. B., Center Nationale de la Recherche, Meteorologique 31057
Toulouse Cedex, France

LONDON, Dr. J., Department of Astrogeophysics, University of Colorado,
Boulder, CO 80309 USA

LOPEZ, Puertas, Dr. M., Instituto de Astrofisica de Andalucia, P. O. Box 2144,
18080 Granada, Spain

LOSIOWA, Dr. A., Institute of Geophysics, Polish Academy of Sciences, Pasteura
3, Warsaw 00-973, Poland

LOUISNARD, Dr. N., ONERA, 29 Avenue de la Div. Leclerc. Chatillon S/Bagneux,
France

LOUW, Dr. C. W., Cooperative Science Programmes, CSIR, P.O. Box 395, Pretoria
0001, South Africa

LOVELOCK, Dr. J. E., Powerchalke, Salisbury Wilts S95 5BQ, United Kingdom

LOWE, Dr. R. P., Department of Physics, University of Western Ontario, London
N6A 3K7, Canada

LOWENSTEIN, Dr. M., NASA, Ames Research Center, Moffett Field, CA 94035 USA

LU, Director D., Laboratory Radar Meteorological and Microwave Remote Sensing,
Institute of Atmospheric Physics, Academia Sinica, Beijing, China

LUBKEN, Dr. F.-J., Physikalsches Institut, Universitat Bonn, Nussallee 12,
5300 Bonn 1, Federal Republic of Germany

LUHMANN, Dr. J. G., 6877 Slichter Hall, University of California at Los Angeles, F6PS, Los Angeles, CA 90009 USA

LUKAC, Dr. T., Geophysical Institute, Czechoslovak Academy of Science, Dubravská Road, 899 30 Bratislava, Czechoslovakia

LUNDIN, Mr. A., Arrheniuslab, Meteorological Institute, Stockholm 10691, Sweden

LUNDIN, Dr. R., Kiruna Geophysical Institute, P.O. Box 704, S981 27, Kiruna, Sweden

LUST, Dr. R. H. F., Max-Planck-Institut, Fohringer Ring 6, München 23 8000, Federal Republic of Germany

LUTHER, Dr. F. M., Code L 262, Lawrence Livermore Laboratory, P.O. Box 808, Livermore, CA 94550 USA

LYNCH, Dr. P., Meteorological Service, Glasnevin Hill, Dublin 9, Ireland

LYON, Dr. A. J., Department of Physics, University of Hong Kong, Hong Kong

MABRES, Dr. A., DECANO, Facultad de Ingeniería, Universidad de Piura, Apartado 353, Piura, Peru

MACHADO, Dr. M. E., Avenue Mitre 3100, 1663 San Miguel, Observatorio de Física Cósmica - CNIE PCIA de Buenos Aires, Argentina

MACHTA, Dr. L., Air Resources Laboratory, National Oceanic and Atmospheric Administration, 8060 13th Street, Silver Spring, MD 20910 USA

MACQUEEN, Dr. R. M., National Center for Atmospheric Research, P.O. Box 3000, Boulder, CO 80307 USA

MADDEN, Dr. R. P., Optical Physics Division, National Bureau of Standards, US Department of Commerce, Washington, DC 20234 USA

MAEDA, Dr. K., Code 961, Planetary Aeronomy Branch, NASA Goddard Space Flight Center, Greenbelt, MD 20771 USA

MAEDA, Dr. K., Kyoto Sangyo University, Kamigamo, Kita-ku, Kyoto 603, Japan

MAEDA, Dr. R., Radio Research Laboratories, 4-2-1 Nukui-kita, Koganei, Tokyo 184, Japan

MAHAJAN, Dr. K. K., National Physical Laboratory, New Delhi 110012, India

MAHLMAN, Dr. J. D., National Oceanic and Atmospheric Administration, ERL Geophysics Fluid Dynamics Laboratory, Princeton University, P.O. Box 308, Princeton, NJ 08540 USA

MAJID, Dr. A., Operations and Instrumentations, Sparcent, P.O. Box 8402, Karachi-32, Pakistan

MAJOR, Dr. G., Institute for Atmospheric Physics, Hungarian Meteorological Service, Budapest, POB, 39, Hungary 1675

MAK, Dr. M. K., Department of Atmospheric Science, University of Illinois, Urbana, IL 61801 USA

MAKIDE, Dr. Y., Department of Chemistry, Faculty of Science, University of Tokyo, Hongo, Tokyo 113, Japan

MALAN, Dr. D. O. G., NRPL Optical Sciences, CSIR, Box 395, Pretoria 0001, South Africa

MALICET, Dr. J., Laboratoire de Chimie Physique, UER Sciences, B.P. 347, 51062 Reims Cedex, France

MAMGAIN, Dr. B. N., Physics Department, Government G.P. College, Uttarkashi (Himalaya) 249193, India

MANI, Dr. (Mrs.) A., Raman Research Institute, Mekhri Circle, Bangalore 560006, India

MANKA, Dr. R., Associateship Office, National Academy of Sciences, 2101 Constitution Avenue, NW, Washington, DC 20418 USA

MANKIN, Dr. W. G., Upper Atmosphere Project, National Center for Atmospheric Research, Box 3000, Boulder, CO 80307 USA

MANSON, Dr. A. H., Physics Department, University of Saskatchewan, Saskatoon, Saskatchewan, S7N 0W0, Canada

MANTAS, Dr. G. P., University of Texas at Dallas, Box 688, Richardson, TX 75080 USA

MARCHE, Dr. P., Laboratoire de Physique Mol., Faculte Sciences Reims, BP 354, 51062 Reims, France

MARCZ, Dr. F., Geodetical and Geophysical Research, Institute for Hungarian Academy of Science, POB 5, Sopron 9401, Hungary

MARENCO, Mr. A., Physique des Aerosols, Universite Paul Sabatier, 118 Route de Narbonne, Toulouse 31077, France

MARIANI, Prof. F., Dipartimento di Fisica, Universita degli Studi, Via Orazio, Raimondo, 00173 Rome, Italy

MARKSON, Dr. R., Center for Space Research, Building 37, Room 241, Massachusetts Institute of Technology, Cambridge, MA 02139 USA

MARLOW, Mr. W. H., Brookhaven National Laboratory, Building 426, Upton, NY 11973 USA

MARCULIS, Dr. P., Chemistry Department, Drexel University, Philadelphia, PA 19104 USA

MAROV, Prof. M. Ya., Institute of Applied Mathematics, USSR Academy of Sciences, Muisskaya Square 4, Moscow 125047, USSR

MARTINEZ, Prof. R. M., DECANO, Facultad de Ingenieria, Universidad de Piura, Apartado 353, Piura, Peru

MARTIN-LOF, Dr. J., Swedish Space Corporation, Tritonvagen 27, Solna S 171 54, Sweden

MARUBASHI, Dr. K., Radio Research Laboratories, 4-2-1 Nukui-kita, Koganei, Tokyo 184, Japan

MASCART, Mr., IOPG, 12 Avenue des Landais, 63001 Clermont Ferrard, France

MASLEY, Dr. A. J., R1/1096, TRW DSSG, One Space Park, Redondo Beach, CA 90278 USA

MASON, Dr. C. J., Department of Atmospheric and Oceanic Science, University of Michigan, Ann Arbor, MI 48104 USA

MASSEBEUF, Dr. M., CNET/CRPE, 3 Avenue de la Republique, 32130 Issy-les-Moulineaux, France

MASSEY, Sir H., University College of London, Gower Street, London WC1E 6BT, United Kingdom

MATEER, Dr. C., Atmospheric Environmental Service, 4905 Dufferin Street, Downsview Ontario, Canada M3U 5T4

MATHEWS, Dr. J. D., 515 Glennan Building, Room 515, Case Western Reserve University, Cleveland, OH 44106 USA

MATHEWS, Mr. R. O., Meteorological Service, Glasnevin Hill, Dublin, 9, Ireland

MATSUNO, Dr. T., Geophysical Institute, University of Tokyo, Yayoi, Bunkyo-ku, Tokyo 113, Japan

MATSUZAKI, Dr. A., Institute of Space and Astronautical Science, 4-6-1, Komaba, Meguro-ku, Tokyo 153, Japan

MATTHEWS, Prof. D. L., Institute of Physical Science and Technology, University of Maryland, College Park, MD 20742 USA

MATTHEWS, Dr. W. A., Max-Planck-Institut, Postfach 20, Katlenburg-Lindau 3, D-3411, Federal Republic of Germany

MAUERSBERGER, Dr. K., School of Physics and Astronomy, University of Minnesota, Minneapolis, MN 55455 USA

MAY, Prof. A. N., Physics Department, University of Ghana, Box 63, Legon, Accra, Ghana

MAYNARD, Dr. N. C., Space Physics Branch, Air Force Geophysics Laboratory, Hanscom Air Force Base, MA 01731 USA

MCAMEE, Dr. J. K., R444, National Oceanic and Atmospheric Administration ERL, 325 Broadway, Boulder, CO 80303 USA

MCCLATCHY, Dr. R. A., Infrared Physics Branch, Air Force Geophysics Laboratory, (OPI), Hanscom Air Force Base, MA 01731 USA

MCCONNELL, Dr. J. C., York University, 4700 Keele Street, Downsview, Ontario, M3J 1P3, Canada

MCCORMAC, Dr. B. M., Lockheed R&DD, D91-30/B202, 3251 Hanover Street, Palo Alto, CA 94304 USA

MCCORMICK, Dr. M. P., Aerosol Measurement Research Branch, NASA Langley Research Center, Hampton, VA 23669 USA

MCCUBBIN, Dr. T. K., 104 Davey Laboratory, The Pennsylvania State University, University Park, PA 16802 USA

MCDERMID, Dr. I. S., Mail Stop 183,601, Jet Propulsion Laboratory, 4800 Oak Grove Drive, Pasadena, CA 94304 USA

MCELROY, Dr. M. B., Department of Engineering and Applied Mathematics, Harvard University, Cambridge, MA 02138 USA

MCEWAN, Dr. M. J., Department of Chemistry, University of Canterbury, Christchurch, New Zealand

MCEWEN, Dr. D. J., ISAS, University of Saskatchewan, Saskatoon, Saskatchewan, S7N 0WO, Canada

MCILRATH, Dr. T. J., IPST, University of Maryland, College Park, MD 20742 USA

MCINTOSH, Dr. D. H., Meteorology Department, The University, JCMB, Kings Building, Edinburgh EH9 3LZ, United Kingdom

MCINTYRE, Dr. M. E., D A M T P, Silver Street, Cambridge CB8 9EW, United Kingdom

MCKENNA-LAWLOR, Dr. S., Physics Department, St. Patricks College, Maynooth, Co. Kildare, Ireland

MCKINNON, Dr. J. A., WDC-A for STP, National Oceanic and Atmospheric Administration, D63, 325 Broadway, Boulder, CO 80303 USA

MOWILLIAMS, Dr. A. S., Department of Physics and Astronomay, St. Cloud State University, St. Cloud, MN 56301 USA

MECHERIKUNNEL, Dr. A. T., Sensor Evaluation Branch, NASA Goddard Space Flight Center, Greenbelt, MD 20771 USA

MEEK, Dr. C. E., Institute of Space and Atmospheric Studies, University of Saskatchewan, Saskatoon, Saskatchewan, S7N 0WO, Canada

MEEK, Dr. J. H., Geophysics Research Laboratory, University of Tokyo, 7-3-1 Hongo, Bunkyo-ku, Tokyo 113, Japan

MEGIE, Dr. G., Service d'Aeronomie, CNRS, P B 3, 91370 Verrieres-le-Buisson, France

MEGILL, Dr. L. R., Physics Department, Utah State University, Logan, UT 84321 USA

MEGRELI SHVILLI, Dr. T. G., Astrophysical Observatory, Abastumani 383762, Georgia, SSR, USSR

MEHTA, Dr. N., Department of Physics, Utah State University, Logan, UT 84322 USA

MEIRA, Dr. L. G., Instituto de Pesquisas Espaciais, Caixa Postal 515, Sao Jose Dos Campos, Sao Paulo 12200, Brazil

MEISCHNER, Dr. P., DFVLR, Post Webling, Oberpfaffenhofen 8031, Federal Republic of Germany

MEJIA, Ing. G. P., Laboratorio de Fisica Cosmica, Universidad Mayor de San Andres, La Paz, Bolivia

MELCHIOR, Prof. P. J., Observatory Royal de Belgique, 3 Avenue Circulaire, B-1180 Brussels, Belgium

MELIERES, Dr. M. A., Laboratoire de Spect. Physique, Universite de Grenoble I, BP 53, 38041 Grenoble Cedex, France

MEMMESHEIMER, Mr. M., Institut fur Astrophysik, Auf Dem Huegel 71, Bonn D-5300 1, Federal Republic of Germany

MENON, Mr. M. G. K., Planning Commission, Yojana Bhavan, New Delhi 110001, India

MENTALL, Dr. J. E., Code 963, NASA Goddard Space Flight Center, Greenbelt, MD 20771 USA

MENZIES, Dr. R. T., Jet Propulsion Laboratory, 4800 Oak Grove Drive, Pasadena, CA 91103 USA

MERIWETHER, Dr. J. W., Space Physics Research Laboratory, University of Michigan, Ann Arbor, MI 48109 USA

MICHALCZEWSKI, Dr. J., Institute of Meteorology and Water Management, Podlesna 61, Warsaw 01-673, Poland

MIGULIN, Dr. V. V., IZMIRAN, Troitsk 142092, Moscow Region, USSR

MILES, Dr. T., NASA Langley Research Center, Mail Stop 401B, Hampton, VA 23665-5225 USA

MILLER, Mr. A. J., National Meteorological Center, Room 201, National Oceanic and Atmospheric Administration, 5200 Auth Road, Washington, DC 20233 USA

MILLER, Mr. D. E., Meteorological Office, London Road, Bracknell, Berks., RG12 2SZ, United Kingdom

MILLIER, Mlle. F., Laboratoire de Physique Stellaire et Planetaire, CNRS, BP 10, 91370 Verrieres-le-Buisson, France

MILLMAN, Dr. G. H., P. O. Box 64, Dewitt, NY 13214 USA

MINTZ, Prof. Y., Department of Meteorology, University of California, Los Angeles, CA 90024 USA

MISAKI, Dr. M., Meteorological Research Institute, 1-1 Nagamine, Yatabe-Machi, Tsukuba-gun, Ibaraki 305, Japan

MITRA, Dr. A. P., Radio Science Division, National Physical Laboratory, New Delhi 110012, India

MITRA, Mr. S. N., 2-14 shanti Niketan, New Delhi 110021, India

MODAYIL, Miss M. A., India Meteorological Department, Lodi Road, New Delhi 110003, India

MOHAN, Mr. G., Indian Institute of Technology, Kanpur 208016, India

MOHANTY, Dr. S., Utkal University, Bhubaneswar 751004, Orissa, India

MOHLER, Dr. O. C., University of Michigan, 1041 Dennison Building, Ann Arbor, MI 48109 USA

MOHNEN, Dr. V. A., Department of Atmospheric Science, State University of New York, 1400 Washington Avenue, Albany, NY 12222 USA

MOLINA, Dr. M. J., M/S 183-601, Jet Propulsion Laboratory, 4800 Oak Grove Dr., Pasadena, CA 91109 USA

MOORADIAN, Dr. A., Quantum Electronics Group, Lincoln Laboratory, Massachusetts Institute of Technology, Lexington, MA 02173 USA

MORACHEVSKY, Prof. V. G., Department of General Meteorology, Leningrad Hydro-meteorological Institute, Leningrad K-196, USSR

MOREELS, Dr. G., Observatoire de Besancon, 36 Avenue de l'Observatoire, 25000 Besancon, France

MOREL, Prof. P., ENS, Universite de Paris, 24 Rue Lhomond, 75005 Paris, France

MORET-BAILLY, Dr. J., Universite de Spectronomie, 6 BD Gabriel, 21000 Dijon, France

MORI, Dr. H., Faculty of Sciences, Shinshu University, 3-1-1 Ashahi, Matsumoto, Nagano 390, Japan

MORROW, Ms. M., CRESS, Petrie Building, York University, 4700 Keele Street, Downsview, Ontario, M3J 1P3, Canada

MORTON, Dr. D. C., Herzberg Institute of Astrophysics, National Research Council Ottawa K1A 0R6, Canada

MOZER, Dr. F. S., Space Science Laboratory, University of California, Berkeley, CA 94720 USA

MUKHERJEE, Dr. B. K., Indian Institute of Tropical Meteorology, Ramdurg House, University Road, Pune 410005, Maharashtra State, India

MULLER, Dr. C., Institut d'Aeronomie Spatiale de Belgique, Avenue Circulaire 3, B-1180 Brussels, Belgium

MULLER, Prof. E. A., Observatoire de Geneva, Sauverny CH-1290, Switzerland

MULLER, Mr. H. G., Department of Physics, University of Sheffield, Sheffield S10 2TN, United Kingdom

MURALIKRISHNA, Dr. P., 1758 Avenue dos Astronautas, Caixa Postale 515, San Jose dos Campos, Sao Paulo, Brazil

MURAOKA, Dr. Y., Department of Physics, Hyogo College of Medicine, 1-1 Mukogawa-cho, Nishinomiya, Hyogo 633, Japan

MURCRAY, Prof. D. G., Physics Department, University of Denver, Denver, CO 80210 USA

MURGATROYD, Dr. R. J., 12 Dunleaved Fields, Launceston, Cornwall, PL15 1AB, United Kingdom

MURPHY, Dr. D., University of Adelaide, GPO Box 498, Adelaide, Australia 5001

MURTY, Dr. A. S. R., Indian Institute of Tropical Meteorology, Ramdurg House, Maharashtra State, Pune 411005, India

MUSTEL, Dr. E. R., 48 Astronomical Council, Pyatmitskaya Street, 109017 Moscow, USSR

NAGANO, Dr. I., Department of Electrical Engineering, Kanazawa University, 2-40-20 Kodatsuno, Kanazawa 920, Japan

NAGATA, Prof. T., 66 Akagi-Shita-Machi, Shinjuku-ku, Tokyo 162, Japan

NAGATANI, Dr. R. M., National Meteorological Center, National Oceanic and Atmospheric Administration, Camp Springs, MD 20233 USA

NAGPAL, Dr. O. P., Physics Department, University of Delhi, Delhi 110007, India

NAGY, Prof. A. F., Space Physics Research Laboratory, University of Michigan, 2455 Hayward Boulevard, Ann Arbor, MI 48105 USA

NAJITA, Dr. K., Department of Electrical Engineering, University of Hawaii, 2540 Dole Street, Honolulu, HI 96822 USA

NAKADA, Dr. M. P., Code 682, NASA Goddard Space Flight Center, Greenbelt, MD 20771 USA

NAKAMURA, Dr. J., Tokyo University, Komaba, Meguro-ku, Tokyo 153, Japan

NAKAMURA, Dr. K., Kashima Branch, Radio Research Laboratories, Kashima-cho, Ibaraki 314, Japan

NAKAMURA, Prof. M., Institute of Physics, University of Tsukuba, 1-1-1 Tennodai, Sakura-mura, Niihari-gun, Ibaraki 305, Japan

NARASIMHA, Prof. R., National Aeronautical Laboratory, Airport Road, Vimanapura P.O, Bangalore 560017, India

NARAYANAN, Mr. A., Physical Research Laboratory, Navrangpura, Ahmedabad 380009, India

NARAYANAN, Dr. M. S., Space Applicatins Centre, Jodhpur Tekhra, Ahmedabad 380053, India

NARAYANAN, Dr. V., Meteorological Section, Terls Isrop. 6, Trivandrum Kerala State, Trivandrum 695002, India

NATH, Dr. N., Department of Physics and Astrophysics, University of Delhi, New Delhi 110007, India

NECKEL, Dr. H., Hamburger Sternwarte, Gojenbergsweg 112, Hamburg 80, D-2050, Federal Republic of Germany

NE'EMAN, Prof. Y., Department of Physics and Astronomy, Tel-Aviv University, Tel-Aviv 69978, Israel

NELSON, Dr. H. F., Department of Mechanical and Aeronautical Engineering, University of Missouri, Rolla, MO 65401 USA

NERURKAR, Mr. D. W., Department of Electronics, Lok Nayak Bhavan, 3rd Floor, Khan Market, New Delhi 110003, India

NESS, Dr. N. F., Bartol Research Institute, University of Delaware, Newark, DE 19716 USA

NESTEROV, Prof. G., Geophysical Institute, Academy G. Bonchev Str., Block 3, Sofia 1113, Bulgaria

NEVEJANS, Dr. D., Belgian Institute for Space Aeronomy, Ringlaan 3, B-1180 Brussels, Belgium

NEWELL, Lt. Col. D. T., European Office of Aerospace Research and Development, Box 14, FPO New York, NY 09510 USA

NEWELL, Prof. R. E., Department of Meteorology, 54-1520, Massachusetts Institute of Technology, Cambridge, MA 02139 USA

NEWMAN, Dr. P. A., Code 616, Goddard Space Flight Center, Greenbelt, MD 20771 USA

NEWTON, Dr. G. P., NASA Headquarters, 400 W Maryland Avenue, Washington, DC 20546 USA

NI, Prof. W.-T., Department of Physics, National Tsing Hua University, Hsinchu, Taiwan, Republic of China

NICHOLLS, Prof. R. W., Centre for Research Exp. Space Science, York University, 4700 Keele Street, Downsview, Ontario, Canada M3P 1J3

NICOLET, Prof. M., Avenue Den Doorn 30, B-1180 Brussels, Belgium

NIEMIROWICZ, Mr. Z., COSPAR Secretariat, 51 Boulevard de Montmorency, 75016 Paris, France

NILES, Dr. F. E., US Army, Atmospheric Science Laboratory, Attn: DELAS-AE, White Sands Missile Range, NM 88002 USA

NIKOLSKY, Dr. P. A., Laboratory for Atmospheric Energetics, Institute of Physics, University of Leningrad, Leningrad-Petrodvorets 198904, USSR

OBASI, Dr. G. O. P., World Meteorological Organization, Case Postale No. 5, CH 1211 Geneva 20, Switzerland

OBAYASHI, Prof. T., Institute of Space and Astronautical Sciences, 4-6-1 Meguro-ku, Tokyo 153, Japan

OBRIDKO, Dr. V. N., Soviet Geophysical Committee, Molodezhnaya 3, Moscow 117296, USSR

OBUKHOV, Prof. A. M., Institute of Physics of the Atmosphere, USSR Academy of Sciences, Pyzhevsky Per. 3, Moscow 109017 USSR

OCHABOVA, Dr. P., Geophysical Institute, Czechoslovak Academy of Sciences, Dubravská Road, 899 30 Bratislava, Czechoslovakia

O'CONNOR, Dr. B. H., Department of Instrument Technology, University of California, Building 70A, Room 2212, Berkeley, CA 94720 USA

OFFERMANN, Prof. D., Physics Department, University of Wuppertal, Gaussstr.
20, Wuppertal 1, 52, Federal Republic of Germany

OGAWA, Prof. T., Radio Atmospheric Science Center, Kyoto University, Gokanosho,
UJI, Kyoto 611, Japan

OGAWA, Dr. T., Hiraiso Branch, Radio Research Laboratories, 3601 Isezaki,
Nakaminato-shi, Ibaraki 311-12, Japan

OGAWA, Dr. T., Geophysical Institute, Kyoto University, Oiwake-cho,
Kitashirakawa, Sakyo-ku, Kyoto 606, Japan

OGAWA, Dr. T., Geophysical Research Laboratory, University of Tokyo, 7-3-1
Hongo, Bunkyo-ku, Tokyo 113, Japan

OHSHIO, Dr. M., Radio Research Laboratories, 4-2-1 Nukui-kita, Koganei, Tokyo
184, Japan

OKANO, Dr. S., Upper Atmosphere Research Laboratory, Tohoku University,
Aramaki-Aoba, Sendai, Miyagi, 980 Japan

OKSMAN, Prof. J., Electrical Engineering Department, University of Oulu,
Albertink 8, Oulu, Finland

OKUDA, Dr. M., Department of Natural Sciences, Hirosaki University, 3
Bunkyo-ku, Hirosaki, Aomori 036, Japan

OKUZAWA, Prof. T., University of Electro-Communications, 1-5-1 Chofugaoka,
Chofu-shi, Tokyo 182, Japan

OLADIRAN, Dr. E. O., Physics Department, University of Ibadan, Ibadan, Nigeria

OLESEN, Mr. J. K., Division of Geophysics, Danish Meteorological Institute,
Lyngbyvej 100, DK 2100 Copenhagen, Denmark

OLIVERO, Dr. J. J., Department of Meteorology, The Pennsylvania State
University, 519 Walker Building, University Park, PA 16802 USA

OLSEN, Mr. R. O., Atmospheric Science Laboratory, US Army Electronic Command,
White Sands Missile Range, NM 88002 USA

OLSON, Prof. D. E., Department of Physics, University of Minnesota, Duluth, MN
55812 USA

OLSON, Dr. W. P., MS 28, Space Sciences Department, 5301 Bolsa Boulevard,
Huntington Beach, CA 92647 USA

ONDOK, Dr. T., Radio Research Laboratories, 4-2-1 Nukui-kita, Koganei, Tokyo
184, Japan

O'NEILL, Dr. A., Meteorological Office, London Road, Bracknell, Berks., RG12
2SZ, United Kingdom

ONI, Mme Dr. C. E. F., Physics Department, University of Ibadan, Ibadan,
Nigeria

ONO, Prof. A., Water Research Institute, Nagoya University, Furo-cho,
Chikusa-ku, Nagoya, Aichi 464, Japan

OPRESCU, Prof. Dr. N., Institute for Constr. of Bucharest, Bul Lacul Fei 124,
Bucharest, Rumania

ORAN, Dr. E. S., Code 4040, Naval Research Laboratory, 4555 Overlook Avenue,
Washington, DC 20375 USA

OSHIMA, Dr. H., Magnetic Observatory, Higashihara, Kanoya 893, Japan

OTT, Dr. E. J., Code 7401, NASA Goddard Space Flight Center, Greenbelt, MD
20771 USA

OTT, Dr. W. R., National Bureau of Standards, US Department of Commerce,
Washington, DC 20234 USA

OTTERBEIN, Dr. M., Bundesministerium fur Forschung und Technologie,
Heinemannstr 2, Bonn 5300, Federal Republic of Germany

OTTERSTEN, Mr. H., National Defense Research Institute, P.O. Box 1165,
Linkoping S-58111, Sweden

OTTERMAN, Prof. J., Department of Geophysics and Planetary Science, Tel-Aviv
University, Tel-Aviv 69978, Israel

OUCHI, Dr. C., Hiraiso Branch, Radio Research Laboratory, 3601 Isozaki,
Nakaminato-shi, Ibaraki 311-12, Japan

PADULA-PINTOS, Dr. V., Institute of Technology Buenos Aires, Av. Madero 399,
Buenos Aires 1106, Argentina

PAETZOLD, Prof. Dr. H. K., Institute of Geophysics and Meteorology, University
of Koeln, Koeln 5000, Federal Republic of Germany

PAGE, Dr. D. E., Space Science Department, European Space Agency, ESTEC,
Keplerlaan, P.O. Box 299, Noordwijk 2200 AG, The Netherlands

PAGE, Dr. W. A., Atmospheric Experiments Branch, NASA Ames Research Center,
Moffett Field, CA 94035 USA

PAGNI, Prof. P. J., Mechanical Engineering Department, University of
California, Berkeley, CA 94720 USA

PAK, Prof. B. S., Cosmic Ray Group, Sogang University, Mapo-ku, Seoul, Republic
of Korea

PAKHOMOV, Dr. L. A., GUGMS, Pavlika Morozova 12, Moscow, USSR

PALMER, Dr. T. N., Meteorological Office, London Road, Bracknell, Berks., RG12
2SZ, United Kingdom

PANCHEV, Prof. S., Department of Meteorology, University of Sofia, Sofia, 26,
Bulgaria

PANDYA, Prof. S. P., Physical Research Laboratory, Navrangpura, Ahmedabad
380009, India

PANT, Col. N., ISRO Satellite Centre, Airport Road, Vimanapura P.O Bangalore
560017, India

PARABRAHMAM, Mr. M., Department of Environment, Technology Bhavan, New Mehrauli Road, New Delhi 110016, India

PARADA, Dr. N. D. J., Instituto de Pesquisas Espaciais, Caixa Postal 515, Sao Jose Dos Campos, 12200 Sao Paulo, Brazil

PARAMENA, Mr. J. A., Meteorological Department, Ministry of Defense, P.O. Box 574, Khartoum, Sudan

PARDO, Dr. A. C., Department of Atmospheric Sciences Library, The Hebrew University of Jerusalem, Jerusalem, 91904 Israel

PARK, Dr. C. G., Radio Science Laboratory, Stanford University, Stanford, CA 94305 USA

PARKINSON, Dr. W. H., Harvard College Observatory, 60 Garden Street, Cambridge, MA 02138 USA

PARRISH, Dr. A., Radio-Astr-Fcrao, Graduate Research Tower, University of Massachusetts, Amherst, MA 01003 USA

PARUNGO, Dr. F., ERL, Room 31, National Oceanic and Atmospheric Administration, 325 Broadway, Boulder, CO 80303 USA

PASCHMANN, Dr. G., Max-Planck-Institut fur Extraterrestrische Physik, 8046 Garching Bei Munchen, Federal Republic of Germany

PASTIELS, Dr. R., Avenue Bel Air 123, B-1180 Brussels, Belgium

PATHAK, Mr. P. N., Space Applications Centre, Jodhpur Tekhra, Ahmedabad 380053, India

PAULSON, Dr. J. F., LKB, Air Force Geophysics Laboratory, Hanscom Air Force Base, MA 01731 USA

PAYNE, Dr. R. M., Science Research Council, P.O. Box 18, North Star Avenue, Swindon SN2 1ET Wilts, United Kingdom

PEACOCK, Dr. D. S., National Science Foundation, Room 644, 1800 G Street, NW, Washington, DC 20550 USA

PEARCE, Prof. R. P., University of Reading, 2 Early Gate, Whiteknights, Reading RG7 2AU, United Kingdom

PEARSON, Mr. L., 7K, Utah State University, University Apartments, Logan, UT 84321 USA

PEETERMANS, Mr. W., Institut d'Aeronomie Spatiale de Belgique, 3 Avenue Circulaire, B-1180 Brussels, Belgium

PELON, Dr. J., S. A. CNRS, BP 3, 91270 Verrieres-le-Buisson, France

PEPIN, Dr. T. J., Department of Physics, University of Wyoming, University Station, Laramie, WY 82071 USA

PERES, Mr. M., Av Libertador 327, 1638 Vicente Lopez, Buenos Aires, Argentina

PERLISKI, Dr. L. M., Department of Astrophysical, Planetary, and Atmospheric Science, University of Colorado, Campus Box 391, Boulder, CO 80309-0391 USA

PERRY, Dr. J., National Research Council, 2101 Constitution Avenue, Washington,
D. C. 20418 USA

PETERS, Dr. B., Danish Space Research Institute, Lundtoftevej 7, Lyngby 2800,
Denmark

PETERSON, Dr. A. W., 520 E. Silver Pines, Colbert, WA 99005 USA

PETERSON, Dr. J., National Oceanic and Atmospheric Administration, RL 3-335,
325 Broadway, Boulder, CO 80303 USA

PETERSON, Dr. J. R., Molecular Physics Center, SRI International, 333
Ravenswood Avenue, Menlo Park, CA 94025 USA

PETERSON, Dr. V., Tycho Technology Inc., P.O. Box 1716, Boulder, CO 80306
USA

PETITDIDIER, Dr. M., CNET/CRPE, 4 Avenue de Neptune, 94107 St. Maur des
Fosses, France

PETZOLDT, Dr. K., Freie Universität, FB 24-WE07, Dietrich-Schäfer-Weg 6-8,
Berlin 41, D-1000, Federal Republic of Germany

PHILBRICK, Dr. C. R., OPA, Air Force Geophysics Laboratory, Hanscom Air Force
Base, MA 01731 USA

PICK, Dr. M., DASOP, Observatoire de Paris, 92190 Meudon, France

PIGGOTT, Mr. W. R., British Antarctic Survey, Madingley Road, Cambridge CB3
OET, United Kingdom

PILLET, Mlle. G., CRPE, 38-40 Rue du General Leclerc, 92131 Issy-les-
Moulineaux, France

PINTADO, Lic. O. I., 24 Dic Setiembre 113 DTO 1, San Miguel de Tucuman 4000,
Argentina

PINTER, Dr. S., Geophysical Institute, Czechoslovak Academy of Sciences,
Hurbanovo 947 01, Czechoslovakia

PISHAROTY, Prof. P. R., Physical Research Laboratory, Navrangpura, Ahmedabad
380009, India

PITTS, Dr. B. J. F., Department of Chemistry, California State University,
Fullerton, CA 92634 USA

PLANET, Dr. W. G., Physics Branch, SEL, National Oceanic and Atmospheric
Administration, Department of Commerce, FOB#4, Room 0216, Washington, DC
20233 USA

PLATT, Dr. C. M. R., Division of Atmospheric Physics, CSIRO, Box 77,
Mordialloc, Victoria 3195, Australia

PLUMB, Dr. A., Division of Atmospheric Physics, CSIRO, P.O. Box 77,
Mordialloc, Victoria 3195, Australia

PLUMMER, Dr. P. M., 109 Norwood Hall, University of Missouri, Rolla, MO 65401
USA

PODALSKE, Dr. J., Mail Stop 245-5, Ames Research Center, Moffett Field, CA 94035 USA

POLK, Dr. C., Department of Electrical Engineering, University of Rhode Island, Kingston, RI 02881 USA

POLOSKOV, Prof. S. M., USSR Academy of Sciences, Leninsky Prospect 14, Moscow, USSR

POMMEREAU, Dr. J.-P., Service d'Aeronomie, CNRS, B P 3, 91370 verrieres-le-Buisson, France

PONNAMPERUMA, Dr. C., Department of Chemistry, University of Maryland, College Park, MD 20742 USA

POPOFF, Dr. I. G., Flick Point Associates, Inc., P.O. Box 35, Carnelian Bay, CA 95711 USA

PONTIAGIN, Dr. Yu. I., Institute of Experimental Meteorology, Lenin Street 82, Obrinsk, Kaluga Region, USSR

POTEMRA, Dr. T. A., Applied Physics Laboratory, Johns Hopkins University, Laurel, MD 20810 USA

POULTNEY, Dr. S., Electromagnetic Optical Division, Perkin-Elmer Corporation, 100 Wooster Heights Road, Danbury, CT 06810 USA

PRAKASH, Prof. S., Physical Research Laboratory, Ahmedabad 380009, India

PRASAD, Dr. B. S. N., Department of Physics, University of Mysore, Mysore 570005, India

PRASAD, Dr. S. S., Jet Propulsion Laboratory (183-601), 4800 Oak Grove Drive, Pasadena, CA 91103 USA

PRIESTER, Prof. Dr. W., Universitat Bonn, Auf Dem Huegel 71, 5300 Bonn 1, Federal Republic of Germany

PRINN, Prof. R. G., Department of Meteorology, Room S4-1822, Massachusetts Institute of Technology, 77 Massachusetts Avenue, Cambridge, MA 02139 USA

PURKAIT, Dr. N. M., Institute of Radiophysics and Electronics, Calcutta University, 92 Acharya Prafulla Chandra Road, Calcutta 700009, India

PYLE, Dr. J. A., Department of Physical Chemistry, University of Cambridge, Lensfield Road, Cambridge CB2 1EP, United Kingdom

QASIM, Dr. S. Z., Department of Ocean Development, South Block, New Delhi 110011, India

QIN, Mr. G.-T., P.O. Box 5112, Beijing, China

QU, Mr. Y.-Z., P.O. Box 5112, Beijing, China

QUECK, Dr. H., Institut fur Physik Atmosphare, DFVLR, Oberpfaffenhofen D-8031, Federal Republic of Germany

QUIROZ, Dr. R. S., National Meteorological Center (W352), National Oceanic and Atmospheric Administration, Washington, DC 20233 USA

QURESHI, Prof. M. N., Department of Science and Technology, Technology Bhavan, New Mehrauli Road, New Delhi 110016, India

RADHAKRISHNAN, Prof. V., Raman Research Institute, Mekhri Circle, Bangalore 560006, India

RADICELLA, Prof. S. M., CAERCEM, Julian Alvarez 1218, Buenos Aires 1414, Argentina

RAGHAVARAO, Prof. R., Physical Research Laboratory, Gujarat, Ahmedabad 380009, India

RAI, Dr. D. K., Department of Physics, Banaras Hindu University, Varanasi 221005, India

RAI, Dr. R. K., Department of Physics, University of Udaipur, Udaipur, Rajasthan, India

RAISBECK, Mr. G. M., Laboratoire Rene Bernas, 91406 Orsay, France

RAITT, Dr. W. J., Center for Atmospheric and Space Sciences, UMC 41, Utah State University, Logan, UT 84322 USA

RAJA, Mr. J., ISRO Headquarters, Cauvery Bhavan, K. G. Road, Bangalore 560009, India

RAJAMANI, Dr. S., Indian Institute of Tropical Meteorology, University Road, Shivajinagar, Pune 411005, India

RAJAN, Mr. Y. S., ISRO Headquarters, Cauvery Bhavan, K. G. Road, Bangalore 560009, India

RAJARAM, Dr. R., Indian Institute of Geomagnetism, Colaba, Bombay 400005, India

RAJARATNAM, Mr. P., Janardhan Tower, Residency Road, Bangalore 560025, India

RAJA RAO, Dr. K. S., India Meteorological Office, Poona 411005, India

RAKIPPOVA, Dr. L. R., Main Geophysical Observatory, Pavlik Morozov Str 12, Moscow 123376, USSR

RAKSHIT, Dr. D. K., Department of Science and Technology, Technology Bhavan, New Mehrauli Road, New Delhi 110016, India

RALCHOVSKI, Dr. T., Geophysical Institute, Bulgarian Academy of Sciences, 6 Moskovska Str., Sofia 1000, Bulgaria

RAMACHANDRA RAO, Mr. B., Member of Parliament, Harinivas, 9-15-17, C.B.M. Compound, Visakhapatnam 530003, India

RAMAKRISHNA, Prof. S., Department of Aeronautical Engineering, Indian Institute of Science, Bangalore 560012, India

RAMANA, Dr. K. V. V., Department of Physics, Andhra University, Waltair, Visakhapatnam 530003, India

RAMANA MURTY, Dr. Bh. V., Indian Institute of Tropical Meteorology, Poona 411005, India

RAMANAMURTY, Dr. Y. V., Radio Science Division, National Physical Laboratory, Hillside Road, New Delhi 110012, India

RAMANATHAN, Prof. K. R., Physical Research Laboratory, Navrangpura, Ahmedabad 9, India

RAMANATHAN, Dr. V., NASA Langley Research Center, Hampton, VA 23665 USA

RAMSDEN, Dr. D., Geophysics and Radio Division, Rutherford Appleton Laboratory, Chilton, Didcot, Oxfordshire OX11 0QX, United Kingdom

RANDEL, Dr. B., Department of Atmospheric Science, Colorado State University, Fort Collins, CO 80523 USA

RANDHAWA, Dr. J. S., Atmospheric Sciences Laboratory, White Sands Missile Range, NM 88002 USA

RANTA, Mrs. H., Geophysical Observatory, Sodankyla SG 99600, Finland

RAO, Prof. C. N. R., Indian Institute of Science, Bangalore 560012, India

RAO, Dr. B. C. N., National Physical Laboratory, Hillside Road, New Delhi 110012, India

RAO, Dr. D. R. K., Colaba and Alibag Observatory, Indian Institute of Geomagnetism, Colaba, Bombay 400005, India

RAO, Dr. M. N. M., National Physical Laboratory, Hillside Road, New Delhi 110012, India

RAO, Mr. N. P. R., TERLS, Vikram Sarabhai Space Centre, ISRO P.O., Trivandrum 695022, India

RAO, Dr. P. B., Department of Physics, University of Kerala, Kariavatrom 695 581, Trivandrum, India

RAO, Dr. P. S. K., Department of Physics, College of Engineering, Kakinada, 533003 (AP), India

RAO, Dr. U. R., ISRO Headquarters, Cauvery Bhavan F Block, Bangalore 560009, India

RAO, Dr. V. R., ISRO Headquarters, Cauvery Bhavan F Block, Bangalore 560009, India

RAPOPORT, Dr. Z. Ts., IZMIRAN, Troitsk, Moscow Region 142092, USSR

RASCHKE, Prof. Dr. E., Institut fur Geophysics und Meteorologie, Kerpener Str 13, Koeln 41 D-5000, Federal Republic of Germany

RASOOL, Dr. S. I., Earth and Space Sciences, Mail Stop 183-335, Jet Propulsion Laboratory, 4800 Oak Grove Drive, Pasadena, CA 91109 USA

RASPOPOV, Dr. O. M., Polar Geophysical Institute, Apatity, Murmansk Region 184200, USSR

RASTOGI, Dr. P. K., Room 715, Glennan Building, Department of Electrical Engineering, Case Western Reserve University, Cleveland, OH 44106 USA

RASTOGI, Dr. R. G., Indian Institute of Geomagnetism, Colaba, Bombay 400005, India

RATKOWSKI, Dr. A., LSP, Air Force Geophysics Laboratory, Hanscom Air Force Base, MA 01731 USA

RATNASIRI, Dr. P. A. J., Ceylon Institute of Science and Industrial Research, P.O. Box 787, Colombo, Sri Lanka

RAUSCH, Dr. G., Dornier System, GMBH Postfach 1360, Riedrichshafen 7990, Federal Republic of Germany

RAVISHANKARA, Dr. A. R., Molecular Science Branch/PSD/EML, Georgia Institute of Technology, Atlanta, GA 30332 USA

RAWER, Prof. K., Herren Str. 43, 7801 March-Hugstetten, Federal Republic of Germany

RAY, Dr. G. W., Hewlett-Packard Laboratory, 3500 Deer Creek Road, Palo Alto, CA 94304 USA

RAZDAN, Prof. H., Barc-Nuclear Research Laboratory, Zukura, Srinagar 190006, India

REAGAN, Dr. J. B., B/205 D/52-12, Lockheed Research Laboratory, 3251 Hanover Street, Palo Alto, CA 94304 USA

REBER, Dr. C., Code 616, NASA Goddard Space Flight Center, Greenbelt, MD 20771 USA

RECK, Dr. R. A., Physics Department, General Motors Research Laboratory, Warren, MI 48090 USA

REDDI, Dr. C. R., Space Physics Laboratory, Vikram Sarabhai Space Centre, ISRO P.O., Trivandrum 695022, India

REDDI, Dr. R. R., Space Physics Laboratory, Vikram Sarabhai Space Center, ISRO P.O., Trivandrum 695022, India

REDDY, Dr. B. M., National Physical Laboratory, Hillside Road, New Delhi, 110012, India

REDDY, Dr. C. A., Space Physics Laboratory, Vikram Sarabhai Space Center, Trivandrum 695002, Kerla, India

REDDY, Dr. R. S., Indian Institute of Tropical Meteorology, Ramdurg House, University Road, Pune 411005, Maharashtra State, India

REDKAR, Dr. R. T., Balloon Facility, Tata Institute of Fundamental Research, Post Bag 5, E.C.I.L. P.O., Hyderabad 500762, India

REES, Dr. D., Physics and Astronomy Department, University College, Gower Street, London WC1E 6ET, United Kingdom

REES, Dr. J. A., Department of Electrical Engineering, University of Liverpool, Liverpool L69 3BX, United Kingdom

REES, Dr. M. F., Geophysical Institute, University of Alaska, Fairbanks, AK 99701 USA

REID, Dr. G. C., Aeronomy Laboratory, National Oceanic and Atmospheric Administration, 325 Broadway, Boulder, CO 80303 USA

REID, Dr. I. M., Max-Planck-Institut fur Aeronomie, Postfach 20, D-3411, Katlenburg, Lindau, Federal Republic of Germany

REINISCH, Dr. B. W., Center for Atmospheric Research, University of Lowell, 450 Aiken Street, Lowell, MA 01854 USA

REITER, Dr. E. R., Department of Atmospheric Science, Colorado State University, Solar Village, Solar House #3, Fort Collins, CO 80523 USA

REITER, Dr. R., Fritz-Muller Street 54, Garmisch-Partenkirchen D-8100, Federal Republic of Germany

REMSBERG, Dr. E. E., NASA Langley Research Center, MS 401 B, Hampton, VA 23665 USA

RENGER, Mr. W., Institut fur Atmospheric Physics, DFVLR, Wessling, D-8037, Federal Republic of Germany

RENOUX, Dr. A., Laboratoire Phys. Aeros. et Trans., Universite Paris XII, Avenue du General De Gaulle, 34000 Creteil, France

REPPAPIS, Dr. C. C., Research Centre for Atmospheric Physics and Climate, Academy of Athens, 131 3rd September Street, Athens 813, Greece

RESTELLI, Dr. G., Joint Research Center, ISPRA 21010 VA, Italy

REVANKAR, Mr. C. P., IMAP Office, Janardhan Tower, Residency Road, Bangalore 560025, India

REVELLE, Dr. D. O., Meteorology Program, Room 118 Davis Hall, Northern Illinois University, Dekalb, IL 60115 USA

RICCIARDI, Prof. Ing. H. J., Universidad de la Plata, Virrey Loreto 1613, 5 "B", Buenos Aires 1426, Argentina

RICHMOND, Dr. A. D., SEL R 43, National Oceanic and Atmospheric Administration, 325 Broadway, Boulder, CO 80303 USA

RICHTER, Dr. J. H., Code 532, Naval Ocean Systems Center, San Diego, CA 92152 USA

RIEGLER, Prof. W. W., Technical University of Graz, Inffeldgasse 12, Graz A 8010, Austria

RIEGEL, Dr. C. A., Department of Meteorology, San Jose State University, San Jose, CA 95192 USA

RIGAUD, Dr. P., Universite P & M Curie, L.D.P.A., 4 Place Jussieu, 75230 Paris, France

RIND, Dr. D., Goddard Institute for Space Studies, 2880 Broadway, New York, NY 10025 USA

RISHBETH, Dr. H., Rutherford Appleton Laboratory, Chilton, Didcot, OXON OX11 0QX, United Kingdom

RITCHIE, Dr. C. H., West Isle Office Tower 508, Recherche en Prevision Numberique, 2121 Trans-Canada Highway, Dorval, Quebec H9P 1JE, Canada

ROBBINS, Dr. D. E., Mail Code SN3, NASA Johnson Space Center, Houston, TX 77058 USA

ROBERTSON, Dr. D. C., Spectral Sciences, Inc., 99 South Bedford Street, Burlington, MA 01803 USA

ROBLE, Dr. R. G., National Center for Atmospheric Research, Box 3000, Boulder, CO 80307 USA

ROCHAS, Dr., EERM, BGMA, 73 Rue de Sevres, Boulogne 92100, France

RODDY, Dr. A., Department of Physics, University College, Galway, Ireland

RODGER, Dr. A. S., British Antarctic Survey, Madingley Road, Cambridge CB3 0ET, United Kingdom

RODGERS, Dr. C. D., Clarendon Laboratory, Oxford University, Oxford OX1 3PU, United Kingdom

RODRIGO, Dr. R., Institute of Astro, Andalusia, P.O. Box 2144, Granada, Spain

RODRIGUEZ, Dr. P., Code 4752, Naval Research Laboratory, Washington, DC 20375 USA

ROEDERER, Dr. J. G., Geophysical Institute, University of Alaska, Fairbanks, AK 99775-0800 USA

ROEHRIG, Mr. O., BPT-WF, DFVLR, Koeln 90, D-5000, Federal Republic of Germany

ROEMER, Dr. M., Astronomische Institut, University of Bonn, Auf Dem Huegel 71, Bonn 5300, Federal Republic of Germany

ROGER, Dr. C., Mail Stop 244-8, NASA Ames Research Center, Moffett Field, CA 94035

ROGERS, Mr. J., Federal Aviation Administration (AEE-300), 800 Independence Avenue SW, Washington, DC 20591 USA

ROOD, Mr. R. B., Code 616, NASA Goddard Space Flight Center, Greenbelt, MD 20771 USA

ROPER, Dr. R. G., School of Geophysical Sciences, Georgia Institute of Technology, Atlanta, GA 30332 USA

ROPP, Ms. C. A., Interdevelopment, Inc., 3261 South Jefferson Davis Highway, Arlington, VA 22202 USA

ROSE, Dr. R., Institute fur Meteorologie, Freie Universitat Berlin, FB 24-WE07, Dietrich-Schafer-Weg 6-8, D-1000 Berlin 41, Federal Republic of Germany

ROSEN, Prof. J. M., Department of Physics and Astronomy, University of Wyoming, Laramie, WY 82071 USA

ROSENBERG, Dr. T. J., Institute of Physical Science and Technology, University of Maryland, College Park, MD 20742 USA

ROSSI, Mr. L., Building F 160, NASA Wallops Flight Center, Wallops Island, VA 23337 USA

ROSTOKER, Dr. G., Institute of Earth and Planetary Physics, University of Alberta, Edmonton, Alberta, Canada T6G 2J1

ROTHWELL, Dr. P. M., Department of Physics, University of Southampton, Highfield, Southampton SO9 5NH, United Kingdom

ROTTGER, Dr. J., EISCAT Scientific Association, Box 705, S981 27 Kiruna, Sweden

ROTTMAN, Dr. G. J., LASP Space Science Building, University of Colorado, Campus Box 392, Boulder, CO 80309 USA

ROWLAND, Dr. F. S., Department of Chemistry, University of California, Irvine, CA 92717 USA

ROY, Dr. C. R., Division of Atmospheric Physics, CSIRO, Box 77, Mordialloc, Victoria 3195, Australia

RUHNKE, Dr. L. H., Code 4320, Naval Research Laboratory, Washington, DC 20375 USA

RUNDEL, Dr. R., Physics Department, Mississippi State University, Mississippi State, MS 39759 USA

RUSCH, Dr. D. W., Laboratory for Atmospheric and Space Physics, University of Colorado, Boulder, CO 80309 USA

RUSSELL, Dr. C. T., Space Science Center, University of California, Los Angeles, CA 90024 USA

RUSSELL, Dr. J. M., NASA Langley Research Center, Mail Stop 401B, Hampton, VA 23665 USA

RUSSELL, Dr. P. B., Space Science Division, Ames Research Center, Moffett Field, CA 94035 USA

RUST, Dr. D. M., Applied Physics Laboratory, Johns Hopkins University, Johns Hopkins Road, Laurel, MD 20707 USA

RUSTER, Dr. R., Max-Planck-Institut fur Aeronomie, Postfach 20, Katlenburg-Lindau 3, D-3411, Federal Republic of Germany

RUTTENBERG, Dr. S., National Center for Atmospheric Research, Box 3000, Boulder, CO 80307 USA

RYCROFT, Dr. M. J., British Antarctic Survey, Madingley Road, Cambridge CB3 0ET, United Kingdom

SAEMUNSSON, Dr. Th., Science Institute, University of Iceland, Dunhaga, Reykjavik, Iceland

SAGAWA, Mr. E., Radio Research Laboratories, 4-2-1 Nukui-kita, Koganei, Tokyo 184, Japan

SAGDEEV, Dr. R., Institut Kosmicheskich, Issledovaniy, Moscow, USSR

SAGISAKA, Dr. S., Faculty of Sciences, Shinshu University, 3-1-1 Asahi, Matsumoto, Nagano 390, Japan

SAGREDO, Dr. J. L., Departamento de Estudios Avanzados, Instituto Nacional de Technica Aeroespacial, Paseo Pinto Rosales 34, Madrid, Spain

SAHA, Dr. B., Institute of Radiophysics and Electronics, Calcutta University, 92 Archarya Prafulla Chandra Road, Calcutta 700009, India

SAHADE, Prof. J., Instituto Argentino Radioastronomy, Casilla de Correo No 5, 1894 Villa Elisa, Buenos Aires, Argentina

SAHAI, Dr. Y., Instituto de Pesquisas Espaciais, Caxia Postal 515, Sao Jose Dos Campos, Sao Paulo 12200, Brazil

SAITO, Prof. N., Faculty of Science, Sophia University, 7 Kioicho, Chiyoda-ku, Tokyo 102, Japan

SAITO, Dr. N., Meteorological Research Institute, 1-1 Nagamine, Yatabe-machi, Tsukuba-gun, Ibaraki 305, Japan

SAITO, Mrs. T., Physical Institute, Fukushima Medical College, 5-75 Sugitsuma-cho, Fukushima 960, Japan

SAITO, Dr. T., Geophysical Institute, Tohoku University, Sendai, Japan

SALAH, Dr. J. E., Haystack Observatory, MIT, Westford, MA 01886 USA

SALBY, Dr. M. L., Center for Atmospheric Theory and Analysis, University of Colorado, Campus Box 391, Boulder, CO 80309-0391 USA

SAMARDJIEV, Dr. D., Geophysical Institute, Bulgarian Academy of Science, 6 Moskovska Str, Sofia 1000, Bulgaria

SAMATAN, Ing. E. L., Facultad de Ingenieria, Paseo Colon 850, Buenos Aires, Argentina

SAMPATH, Dr. S., Center for Earth Scientific Studies, P. B. No. 2235, Trivandrum 695010, India

SANDFORD, Dr. M. T., Los Alamos Scientific Laboratory, Box 1663, MS 665, Los Alamos, NM 87545 USA

SANGA, Dr. N. K., Laboratory of Climatic Change Research, Kyoto University, 17-1 Ohmiae-cho, Kitakayan, Yamashina, Kyoto 607, Japan

SARACHIK, Dr. E. S., Center for Earth and Planetary Physics, Harvard University, Cambridge MA 02138 USA

SARKAR, Dr. R. P., India Meteorological Department, Lodhi Road, New Delhi 110003, India

SARTOR, Dr. C. D., National Center for Atmospheric Research 727 Tenth Street, Boulder, CO 80307 USA

SASI, Dr. M. N., Space Physics Division, Vikram Sarabhai Space Center, Trivandrum 695022, India

SATO, Dr. T., Department of Physics, Hyogo College of Medicine, 1-1 Mukogawa-cho, Nishinomiya, Hyogo 663, Japan

SATO, Dr. T., Radio Atmospheric Science Center, Kyoto University, UJI Kyoto 611, Japan

SATRUSTEGUI, Dr. J., INTA, CONIE, Paseo del Pintor Rosales 34, Madrid 8, Spain

SATYAN, Dr. V., Physical Research Laboratory, Navrangpura, Ahmedabad 380009, India

SAUVAL, Dr. A.-J., Observatoire Royal de Belgique, 3 Avenue Circulaire, B-1180 Brussels, Belgium

SAWADA, Prof. R., Department of Physics, Kyushu University, 6-10-1 Hakozaki, Higashi-ku, Fukuoka 812, Japan

SAYIGH, Dr. A. A. N., Energy Department, Kuwait Institute for Scientific Research, P.O. Box 24885, Safat, Kuwait

SCARF, Dr. F. L., Building R5, Room 1280, TRW Systems Group, One Space Park, Redondo Beach, CA 90278 USA

SCHAAS, Ms. L., Space Science Institute, 3625 East Ajo Way, Tucson, AZ 85713 USA

SCHAFFNER, Dr. S., Laboratory for Atmospheric and Space Physics, University of Colorado, Box 392, Boulder, CO 80309 USA

SCHANDA, Prof. E., Institute of Applied Physics, Sidlerstrasse 5, Bern CH-3012, Switzerland

SCHERER, Dr. M., Belgian Institute for Space Aeronomy, Ringlaan 3, B-1180 Brussels, Belgium

SCHERRER, Dr. P. H., Center for Space Science and Astrophysics, Stanford University, ERL, Stanford, CA 94305 USA

SCHEUCHER, Mr. K., 7136 Eagle Road, Willoughby, OH 44094 USA

SCHIFF, Dr. H. I., Center for Research Space Studies, York University, Downsview, Ontario M3J 1P3, Canada

SCHINDLER, Prof. Dr. R. N., Institut fur Physik Chemie, Okshausenstrasse 40/60, Neue Universitat Haus S 12C, D-2300 Kiel, Federal Republic of Germany

SCHLAPP, Dr. D. M., Department of Physics, University of Exeter, Stocker Road, Exeter EX4 4QL, United Kingdom

SCHMELTEKOPF, Dr. A., Aeronomy Laboratory, National Oceanic and Atmospheric Administration, ERL, 325 Broadway, Boulder, CO 80303 USA

SCHMERLING, Dr. E. R., Code 600, Goddard Space Flight Center, Greenbelt, MD 20771 USA

SCHMIDLIN, Mr. F. J., NASA Wallops Space Flight Center, Wallops Island, VA 23337 USA

SCHMIDT, Dr. G., Max-Planck-Institut fur Aeronomie, Katlenburg-Lindau 3,
D-3411, Federal Republic of Germany

SCHMIDT, Dr. U., Institut fur Chemie, Postfach 1913, Julich 1 D5170, Federal
Republic of Germany

SCHMIDTKE, Dr. G., Institut fur Physik Weltraum, Heidenhofstr 8, Freiburg-im-
Breisgau, Federal Republic of Germany

SCHMINDER, Dr. R., Leiter Observatorium Collm, Karl-Marx-Universitat Leipzig,
Collm DDR 7261, German Democratic Republic

SCHMITZ, Dr. G., Akademie der Wissenschaften, Zentralinstitut fur STP,
Mitschurinstr, Kuhlungsborn 2565, German Democratic Republic

SCHNEIDER, Prof. O., Echeverria 2040, 2B, Buenos Aires, Suc. 28, Argentina

SCHOEBERL, Dr. M. R., Code 616, Goddard Space Flight Center, Greenbelt, MD
20771 USA

SCHRODER, Dr. W., Geophysical Station, Hechelstrasse 8, Bremen-Roennebeck
D-2820, Federal Republic of Germany

SCHUCHARDT, Dr. K. G. H., Institute fur Astrophysik und Extraterrestrische,
University of Bonn, Auf Dem Huegel 71, Bonn 5300, Federal Republic of
Germany

SCHULTZ, Prof. L. D., Benedictine College, N24, Atchison, KS 66002 USA

SCHURATH, Prof. Dr. U., Institut fur Physikalische Chemie, University of Bonn,
12 Wegelerstrasse, Bonn 5300, Federal Republic of Germany

SCHUURMANS, Prof. Dr. C. J. E., Institut voor Meteorologie en Oceansgrafie,
State University of Utrecht, Postbus 80.005, Utrecht 3508 TA, The
Netherlands

SCHWAB, Dr. J. J., Atmospheric Research Project, Harvard University, ESL 40
Oxford Street, Cambridge, MA 02138 USA

SCHWARTZ, Dr. P. R., Code 4138, Naval Research Laboratory, 4555 Overlook
Avenue, SW, Washington, DC 20375 USA

SCHWARZKOPF, Dr. M. D., Geophysical Fluid Dynamics Laboratory, Princeton
University, P.O. Box 308, Princeton, NJ 08540 USA

SCHWENTEK, Dr. H., Max-Planck-Institut fur Aeronomie, Postfach 20, Katlenburg-
Lindau 3, D-3411, Federal Republic of Germany

SCOTT, Mr. A. F. D., University College of London, Gower Street, London WC1E
6BT, United Kingdom

SCOTT, Mr. S., Mail Stop 245:5, NASA Ames Research Center, Moffett Field, CA
94035 USA

SEARS, Dr. R. D., 5254/202, Lockheed Research Laboratories, 3251 Hanover
Street, Palo Alto, CA 94304 USA

SECHRIST, Prof. C. F., Jr., College of Engineering, University of Illinois,
1308 West Green Street, Urbana, IL 61801 USA

SECHRIST, Prof. F. S., Department of Meteorology, University of Wisconsin,
1225 West Dayton Street, Madison, WI 53706 USA

SEDLACEK, Dr. W. A., ERDS/LASL-DOT, Los Alamos Science Laboratory, P.O. Box
1663, Los Alamos, NM 87545 USA

SEHRA, Dr. P. S., Space Applications Centre, ISRO, Remote Sensing Area,
Meteorology Division, Ahmedabad 380053, India

SEILER, Prof. Dr. W., Max-Planck-Institut fur Chemie, Postfach 3060, Mainz D
6500, Federal Republic of Germany

SEKIHARA, Dr. K., 2179-3 Daitakubo, Urawa-shi, Saitama 336, Japan

SELIGA, Dr. T. A., Engineering College, 101 Hammond Building, The Pennsylvania
State University, University Park, PA 16802 USA

SELLERS, Dr. B., Radiation Physics, Panametrics, Inc., 221 Crescent Street,
Waltham, MA 02154 USA

SEN, Prof. A. K., Institute of Radiophysics and Electronics, Calcutta
University, 92 Acharya Prafulla Chandra Road, Calcutta 700009, India

SENGUPTA, Dr. K., Space Physics Laboratory, Vikram Sarabhai Space Centre, ISRO
P.O., Trivandrum 695022, India

SERAFIMOV, Prof. K. B., Central Laboratory for Space Research, Bd. Russki 1,
Sofia 1000, Moskouska Station 6, Bulgaria

SESHADRI, Dr. N., Office Meteorology, Indian Meteorological Department, Lodhi
Road, New Delhi 110003, India

SESHAGIRI, Dr. N., Department of Electronics, Lok Nyak Bhavan, Third Floor,
Khan Market, New Delhi 110001, India

SESHAMANI, Dr. R., Sensor Section, ISRO Satellite Center, Peenya Industrial
Estate, Bangalore 560058, India

SESHAN, Mr. T. N., Department of Environment, Bikaner House, Shahajahan Road,
New Delhi, 110003, India

SESIANO, Dr. J., Chemin de Munchie 2, Conflignon 1232, Switzerland

SETHURAMAN, Mr. R., Madras Institute of Technology Campus, Anna University of
Technology, Madras 600044, India

SETTLE, Dr. M., Code ERS-2, NASA Headquarters, 400 W. Maryland Avenue,
Washington, DC 20546 USA

SETTY, Dr. C. S. G. K., Department of Physics and Astrophysics, University of
Delhi, Delhi 110007, India

SHAKUN, Dr. W., EML, Georgia Institute of Technology, Baker Building, Atlanta,
GA 30332 USA

SHAPLEY, Mr. A. H., EDS, National Oceanic and Atmospheric Administration, 325
Broadway, Boulder, CO 80303 USA

SHARMA, Dr. M., Department of Physics, Gauhati University, Gauhati 781014 ASS AM, India

SHARMA, Mr. M. C., National Physical Laboratory, Hillside Road, New Delhi 110012, India

SHARMA, Mr. R. P., University Grants Commission, Bahadur Shah Zafar Marg, New Delhi 110002, India

SHARMA, Dr. V. N., Physics Department, Government Post Graduate College, Uttarkasid, 249193 Himalaya, India

SHAROV, Dr. V., Laboratory for Satellite Meteorology, Institute of Hydrology and Meteorology, BD "Lenin" Number 66, Sofia 13, Bulgaria

SHARP, Dr. W. E., Space Physics Research Laboratory, University of Michigan, 2455 Hayward, Ann Arbor, MI 48109 USA

SHAW, Dr. J. H., Department of Physics, Ohio State University, Columbus, OH 43210 USA

SHEA, Ms. M. A., SPL-Code PHG, Air Force Geophysics Laboratory, Hanscom Air Force Base, MA 01731 USA

SHEFOV, Dr. N. N., Institute for Physics of Atmospheres, Academy of Science, Pyzhevsky 3, Moscow, USSR

SHELDON, Dr. W. R., CESR, Universite Paul Sabatier, Box 4346, 31029 Toulouse Cedex, France

SHEN, Mr. C.-S., Department of Geophysics, University of Beijing, Beijing, China

SHEPHERD, Dr. G. G., Center for Research in Space Science, York University, 4700 Keele Street, Downsview 463, Ontario, M3J 1P3 Canada

SHERIDAN, Dr. K. V., Solar Group, CSIRO Division of Radiophysics, P.O. Box 76, Epping NSW 2121, Australia

SHETTLE, Dr. E. P., Atmospheric Optics Branch, Air Force Geophysics Laboratory, Hanscom Air Force Base, MA 01731 USA

SHIBATA, Mr. T., University of Electro-Communications, 1-5-1 Chofugaoka, Chofu-shi, Tokyo 182, Japan

SHIBATA, Dr. T., Department of Electrical Engineering, Kyushu University, Fukuoka, Japan

SHIMABUKURO, Mr. F. I., Aerospace Corporation, P.O. Box 92957, Los Angeles, CA 90009 USA

SHIMAZAKI, Dr. T., Space Science Division, NASA Ames Research Center, Moffett Field, CA 94035 USA

SHIMIZU, Dr. I., Japan Meteorological Agency, 1-3-4 Ote-machi, Chiyoda-ku, Tokyo 100, Japan

SHIMIZU, Dr. M., Tokyo University, 3-8-1 Komaba, Meguro-ku, Tokyo 153, Japan

SHIRAKI, Dr. M., Meteorological Research Institute, 1-1 Nagamine, Yatabe-Machi, Tsukuba-gun, Ibaraki, 305, Japan

SHIRVAIKAR, Dr. V. V., Environmental Studies Section, Bhabha Atomic Research Centre, Bombay 400085, India

SHITAMICHI, Dr. M., Aerological Division, Japan Meteorological Agency, 1-3-4 Ote-Machi, Chiyoda-ku, Tokyo 100, Japan

SHVED, Dr. G. M., Department of Atmospheric Physics, Leningrad University, Leningrad B164, USSR 199164

SICA, Dr. R. J., Center for Atmospheric and Space Science, Utah State University, Logan, UT 84322-3400 USA

SIDI, Prof. C., S.A. CNRS, BP 3, 91370 Verrieres-le-Buisson, France

SIEBERT, Prof. M., Institut fur Geophysics, University Gottingen, Herzberger Landstrasse 180, Gottingen 34, Postfach 876, Federal Republic of Germany

SIKKA, Dr. D. R., Indian Institute of Tropical Meteorology, Ramdurg House, University Road, Shivajinagar, Pune 411005, India

SILVA DE SOUSA, Mr. A., Servico Meteorological Nacional, R Saraiva de Carvalho 2, Lisbon 3, Portugal

SILVERMAN, Dr. S., 18 Ingleside Road, Lexington, MA 02173 USA

SIMON, Dr. P. A., Observatoire de Meudon, 92190 Meudon, France

SIMON, Dr. P. C., Institut d'Aeronomie Spatiale de Belgique, 3 Avenue Circulaire, B-1180 Brussels, Belgium

SINCLAIR, Dr. R. W., Geophysical Fluid Dynamics Laboratory, Princeton University, P.O. Box 308, Princeton, NJ 08540 USA

SINGER, Dr. F. S., Environmental Science, University of Virginia, Charlottesville, VA 22903 USA

SINGH, Dr. J. J., NASA Langley Research Center, Mail Code 235, Hampton, VA 23665 USA

SINGH, Prof. M. P., Department of Mathematics, Indian Institute of Technology, Hauz Khas, New Delhi 110016, India

SINGH, Dr. R. N., Institute of Technology, Banaras Hindu University, Varanasi 5, India

SINHA, Dr. M. C., India Meteorological Department, Lodhi Road, New Delhi 110003, India

SIPLER, Dr. D. P., Air Force Geophysics Laboratory/OPA, Hanscom Air Force Base, MA 01731 USA

SIREN, Dr. J. C., IPST, University of Maryland, College Park, MD 20742 USA

SLANGER, Dr. T., PS 091, SRI International, 333 Ravenswood Avenue, Menlo Park, CA 94025 USA

SMITH, Dr. A. J., Department of Physics, The University of Sheffield, Sheffield S3 7RH, United Kingdom

SMITH, Dr. A. K., Space Physics Research Laboratory, Department of Atmospheric and Oceanic Science, University of Michigan, Ann Arbor, MI 48109-2143

SMITH, Dr. D., Department of Space Research, University of Birmingham, Birmingham B152TT, United Kingdom

SMITH, Dr. H. J. P., Visidyne Inc., 5 Corporate Place, South Bedford Street, Burlington, MA 01830 USA

SMITH, Dr. L. G., Department of Electrical and Computer Engineering, University of Illinois, 1406 West Green Street, Urbana, IL 61801 USA

SMITH, Dr. M. A. H., NASA Langley Research Center, Mail Stop 401A, Hampton, VA 23665 USA

SMITH, Dr. P. A., Rutherford Appleton Laboratory, Chilton, Didcot, OXON OX11, United Kingdom

SMITH, Dr. P. L., Harvard College Observatory, 60 Garden Street, Cambridge, MA 02138 USA

SMITH, Prof. R. A., Physics Department, University of New England, Armidale, N.S.W. 2351, Australia

SMITH, Dr. R. W., School of Physical Science, Ulster Polytechnic, Jordanstown, Co Antrim BT37 0QB, Ireland

SMITH, Dr. S. A., ED-44 Marshall Space Flight Center, Huntsville, AL 35812 USA

SOBRAL, Dr. J. H. A., Instituto de Pesquisas Espaciais, Caxia Postal 515, Sao Jose Dos Campos, Sao Paulo 12200, Brazil

SOEGLIJO, Dr. J., National Aeronautics and Space Institute, L.L.R.E. Martadinata 166, P.O. Box 26, Bandung, Indonesia

SOFUE, Dr. Y., Nobeyama Radio Observatory, University of Tokyo, Nobeyama, Menamesaku-gun, 384-13 Nagana-ken, Japan

SOLIZ, Lt. Col. P., EOARD Box 14, FPO New York, NY 09510 USA

SOLOMON, Dr. S., Aeronomy Laboratory, National Oceanic and Atmospheric Administration, 325 Broadway, Boulder, CO 80303 USA

SOMAYAJI, Dr. T. S. N., Department of Physics, Andhra University, Waltair, Visakhapatnam 530003, India

SOMAYAJULU, Dr. V. V., Vikram Sarabhai Space Centre, Trivandrum 695022, India

SOMAYAJULU, Dr. Y. V., Radio Science Division, National Physical Laboratory, Hillside Road, New Delhi 110012, India

SOMOV, Dr. B. V., P.N. Lebedov Physical Institute, Academie of Science, USSR #53 Leninsky, Prospekt, Moscow 117924, USSR

SONNEMANN, Dr. G., Institute for Space Research, Academy of Sciences, Kalkhorstweg, Neustkelitz DDR-2080, German Democratic Republic

SORAAS, Mr. O. F., Department of Physics, University of Bergen, Allegt 55, N-5000 Bergen, Norway

SOUTHWOOD, Dr. D. S., Physics Department, Imperial College, Prince Consort Road, London SW7 2AZ, United Kingdom

SPANKUCH, Dr. D., Meteorological Hauptobservatorium, Telegrafenberg, Potsdam DDR-1500, German Democratic Republic

SPASOV, Dr. H., Geophysical Institute, Bulgarian Academy of Sciences, 6 Moskovska Str, Sofia 1000, Bulgaria

SPETH, Prof. Dr. P., Institut fur Geophysik und Meteorologie, Kerpener Str 13, Koeln 41, D-5000, Federal Republic of Germany

SPJELDVIK, Dr. W. N., Department of Physics, Weber State College, Ogden, UT 88408 USA

SPRACKLEN, Dr. C. T., Department of Engineering, University of Aberdeen, Kings College, Aberdeen AB9 2UE, United Kingdom

SPRENGER, Prof. Dr. K., Observatorium fur Ionospharenforschung, Kuhlungsborn DDR 2565, German Democratic Republic

SREEDHARAN, Dr. C. R., India Meteorological Department, University Road, Shivajinagar, Pune 411005, India

SRIVASTAVA, Dr. G. P., Indian Meteorological Department, University Road, Shivajinagar, Pune 411005, India

SRIVASTAVA, Dr. R. C., Department of Geophysical Science, University of Chicago, 5734 S Ellis Avenue, Chicago, IL 60637 USA

STAIR, Dr. A. T., Optical Physics Laboratory, Air Force Geophysics Laboratory, Hanscom Air Force Base, MA 01731 USA

STANFORD, Dr. J. L., Department of Physics, Iowa State University, Ames, IA 50011 USA

STANTON, Dr. B. W., Aerospace Division, The Perkin-Elmer Corporation, 2771 North Garey Avenue, Pomona, CA 91767 USA

STARR, Mr. W. L., NASA Ames Research Center, Mail Stop 245-5, Moffett Field, CA 94035 USA

STEDMAN, Dr. D. H., Department of Chemistry, University of Denver, Denver, CO 80208 USA

STEGEN, Dr. G. R., Flow Research Inc., 1819 South Central Avenue, Kent, WA 98031 USA

STEINHAUSER, Prof. Dr. F., Institut fur Meteorologie und Geodynamics Hohe Warte 38, Wien A 1190, Austria

STENING, Dr. R. J., School of Physics, University of N.S.W., Kensington 2033, Australia

STEPHENSON, Dr. D. G., The P.Z.T. Observatory, P.O. Box 57, Midnapore, Alberta T01 1J0, Canada

STERGIS, Dr. C. G., Air Force Geophysics Laboratory, Hanscom Air Force Base, MA 01730 USA

STREIT, Dr. G. E., Los Alamos National Laboratory, Box 1663, MS F611, Los Alamos, NM 87545 USA

STEVENS, Prof. D. E., Department of Atmospheric Science, Colorado State University, Fort Collins, CO 80523 USA

STEWART, Dr. I., Laboratory for Atmospheric and Space Physics, University of Colorado, Boulder, CO 80309 USA

STEWART, Dr. K. H., The Meteorological Office, London Road, Bracknell, Berks., RE12 2SZ, United Kingdom

STILKE, Dr. G., Meteorology Institut, Universitat of Hamburg, Bundesstr 55, 2 Hamburg 13, Federal Republic of Germany

STIPPICH, Ms. S., WPL, National Oceanic and Atmospheric Administration, 325 Broadway, Boulder, CO 80303 USA

STOFFREGEN, Dr. W., Alvaigen 29A, 75245 Uppsala, Sweden

STOKER, Prof. P. H., Cosmic Ray Research Unit, Potchefstroom University, Potchefstroom, South Africa

STOKES, Dr. R. A., Battelle Observatory, Battelle NW Laboratories, Richland, WA 99352 USA

STOLARSKI, Dr. R. S., Code 616, NASA Goddard Space Flight Center, Greenbelt, MD 20771 USA

STONE, Dr. J., 2141 Upper St. Dennis Road, St. Paul, MN 55116 USA

STROBEL, Dr. D. F., Department of Earth and Planetary Sciences, Johns Hopkins University, Baltimore, MD 21218 USA

STUHL, Prof. Dr. F., Ruhr Universitat, P.O. Box 102148, Bochum 4630, Federal Republic of Germany

STUMPERS, Prof. F. L. M., Elzentlaan 11, Eindhoven 5611G, The Netherlands

SUBBARAYA, Dr. B. H., Physical Research Laboratory, Navrangpura, Ahmedabad 380009, India

SUBRAMANYAM, Dr. C. V., National Physical Laboratory, Hillside Road, New Delhi 110012, India

SUBRAMANYAM, Dr. P., National Physical Laboratory, Hillside Road, New Delhi 110012, India

SUCKSDORFF, Dr. C. G., Finnish Meteorological Institute, Box 503, Helsinki SF 00101, Finland

SUGIURA, Dr. M., Geophysical Institute, Kyoto University, Kyoto 606, Japan

SULLIVAN, Dr. H. M., Department of Physics, University of Victoria, Victoria, B.C. V8W 2Y2, Canada

SULLIVAN, Dr. T. J., L-262, Lawrence Livermore Laboratory, P.O. Box 808, Livermore, CA 94550 USA

SUNDARARAMAN, Dr. N., World Meteorological Organization, Case Postale 5, CH 1211, Geneva, Switzerland

SUOMI, Dr. V. E., Space Sciences and Engineering Center, University of Wisconsin, 1225 West Dayton Street, Madison, WI 53706 USA

SURYJAK, Dr. W., Institute of Meteorology, Borowego 9, Krakow 38-215, Poland

SVESTKA, Dr. Z., Laboratorium voor Ruimte-onderzoek, Beneluxlaan 21, 3527 HS Utrecht, The Netherlands

SWENSON, Dr. G. R., E8 53, NASA Marshall Space Flight Center, Huntsville, AL 35812 USA

SWIDER, Dr. W., LKD, Air Force Geophysics Laboratory, Hanscom Air Force Base, MA 01731 USA

SYKORA, Dr. J., Astronomical Institute, Czechoslovak Academy of Sciences, 05960 Tatranska Lomnica, Czechoslovakia

SZAJNA, Dr. E. F., Code 902, NASA Goddard Space Flight Center, Greenbelt, MD 20771 USA

SZUSZCZEWICZ, Dr. E. P., Science Applications International Corporation, 1710 Goodridge Drive, G-8-1, McLean, VA 22102 USA

TAHIRA, Dr. M., Airchi University of Education, Kariya, Aichi 448, Japan

TAI, Mr. H.-S., P.O. Box 5112, Beijing, China

TAI, Mrs. Y.-Q., P.O. Box 5112, Beijing, China

TAKAGI, Dr. M., Research Institute for Atmospherics, Nagoya University, 3-13 Honohara, Toyokawa, Aichi 442, Japan

TAKAHASHI, Dr. H., Instituto de Pesquisas Espaciais, Caixa Postal 515, Sao Jose Dos Campos, 12200 Sao Paulo, Brazil

TAKAHASHI, Prof. H., Faculty of Pedagogy, Iwate University, Ueda 3-18-33, Morioda, Iwate 020, Japan

TAKANO, Dr. K., NASA Goddard Institute of Space Studies, 2880 Broadway, New York, NY 10025 USA

TAKENOSHITA, Dr. Y., Radio Research Laboratories, 4-2-1 Nukui-kita, Koganei, Tokyo 184, Japan

TAKEUCHI, Dr. N., National Institute of Environmental Studies, Japan Environmental Agency, Yatabe, Ibaraki 305, Japan

TALJAARD, Dr. J. J., South African Weather Bureau, Private Bag X193, Pretoria 0001, South Africa

TANAKA, Prof. H., Water Research Institute, Nagoya University, Furo-cho,
Chikusa-ku, Nagoya, Aichi 464, Japan

TANAKA, Dr. M., Upper Atmosphere Research Laboratory, Tohoku University,
Aramaki-aoba, Sendai, Miyagi 980, Japan

TANCZER, Dr. T., Institute for Atmospheric Physics, P.O. Box 39, Budapest
1675, Hungary

TANDBERG-HANSEN, Dr. E., NASA Marshall Space Flight Center, Huntsville,
AL 35812 USA

TASSO, Prof. Ing. J. J., Com Nacional Investigaciones Espac, Como Pedro Zanni
250, Buenos Aires 8 Piso, Argentina

TAUBENHEIM, Prof. J., Heinrich-Hertz-Institut, DDR-1199 Berlin, German
Democratic Republic

TAYLOR, Dr. F. W., Department of Atmospheric Physics, Clarendon Laboratory,
Oxford OX1 3PU, United Kingdom

TAYLOR, Dr. R. C., National Science Foundation, 1800 G Street, NW, Washington,
DC 20550 USA

TEFFT, Mr. J. D., National Center for Atmospheric Research, P.O. Box 3000,
Boulder, CO 80307 USA

TEITELBAUM, Dr. H., L.M.D., Ecole Polytechnique, Palaiseau 91128, France

TEPLEY, Dr. C. A., Arecibo Observatory, P.O. Box 995, Arecibo, Puerto Rico
00612

TEPTIN, Dr. G. M., State University, Kasan, USSR

TESTUD, Dr. J., CRPE, CNET, 3 Avenue de la Republique, 91370 Issy-les-
Moulineaux, France

THOMAS, Prof. G. E., LASP, University of Colorado, Campus Box 392, Boulder, CO
80309 USA

THOMAS, Prof. J. A., Physics (RAAF) Department, University of Melbourne,
Parkville 3052, Australia

THOMAS, Prof. L., Department of Physics, University College of Wales, Penglais,
Aberystwyth, Dyfed SY23 3BZ, United Kingdom

THOMAS, Dr. R. J., LASP, University of Colorado, Campus Box 392, Boulder, CO
80309 USA

THORNE, Dr. R. M., Department of Atmospheric Science, University of
California, Los Angeles, CA 90024 USA

THRANE, Dr. E. V., Norwegian Defence Research Establishment, N-2007 Kjeller,
Norway

THRUSH, Dr. B. A., Department of Physical Chemistry, University of Cambridge,
Lensfield Road, Cambridge CB2 1EP, United Kingdom

THUILLIER, Dr. G., Service d'Aeronomie, CNRS, B. P. 3, Verrieres-le-Buisson,
France

TILFORD, Dr. S. G., Atmospheric Processes Branch, EBT-8, NASA, 600 Independence Avenue, Washington, DC 20546 USA

TILLU, Prof. A. D., Department of Physics, University of Poona, Pune 411007, India

TINSLEY, Dr. B. A., Physics Department, University of Texas, Box 688, Richardson, TX 75080 USA

TIURI, Prof. M., Radio Laboratory, Technical University of Helsinki, Otaniemi 02150, Finland

TIWARI, Dr. M. N., ISRO Headquarters, Cauvery Bhavan, K. G. Road, Bangalore 560009, India

TOBIAS, Prof. C. A., 363 Donner Laboratory, University of California, Berkeley, CA 94720 USA

TOMAN, Dr. K., EEP, Rome Air Development Center, Hanscom Air Force Base, MA 01731 USA

TOMINAGA, Prof. T., Department of Chemistry, University of Tokyo, 7-3-1 Hongo, Bunkyo-ku, Tokyo 113, Japan

TOROSHELIDZE, Dr. T. I., Tstumani Astrophysical Observatory, Georgian Academy of Sciences, Moscow, USSR

TORR, Dr. D. G., University of Alabama in Huntsville, Research Institute - C-5, Huntsville, AL 35899

TORRES, Dr. A. L., Department of Chemistry, Drexel University, Philadelphia, PA 19104 USA

TRAN, Dr. A., Department of Atmospheric Sciences, National Taiwan University, Taipei, Taiwan 107, Republic of China

TREFALL, Prof. H., University of Bergen, Lars Hillesgate 20, N-5000 Bergen, Norway

TRISKA, Dr. P., Ions Department, Geophysical Institute, Czechoslovak Academy of Sciences, 14131 Prague 4, Czechoslovakia

TROITSKAYA, Dr. V. A., Institute for Physics of Earth, Academy of Science, 10 Bolshaya Gruzinskaya, Moscow 123242, USSR

TSAY, Prof. C.-Y., Department of Atmospheric Sciences, National Taiwan University, Taipei, Taiwan 107, Republic

TSCHU, Prof. K.-K., Division of Geomagnetic and Solar Terrestrial Physics, Institute of Geophysics, Academia Sinica, P.O. Box 928, Beijing, China

TSO, Mr. H., Department of Geophysics, University of Beijing, Beijing, China

TSOU, Dr. J. J., NASA/Langley Research Center, Mail Stop 401B, Hampton, VA 23665 USA

TSUDA, Dr. T., Radio Atmospheric Sciences Center, Kyoto University, Gokanosho, UJI, Kyoto 611, Japan

TSUEDA, Mr. K., Radio Research Laboratories, 4-2-1, Nukui-kita Koganei, Tokyo 184, Japan

TSUTSUI, Dr. M., Radio Atmospheric Science Center, Kyoto University, UJI, Kyoto 611, Japan

TUCK, Dr. A. F., Aeronomy Laboratory, NOAA/ERL, R/E/AL6, 325 Broadway, Boulder, CO 80303 USA

TUAN, Dr. T. F., Physics Department, University of Cincinnati, Cincinnati, OH 45221 USA

TURCO, Dr. R. P., R & D Associates, P.O. Box 9695, Marina Del Rey, CA 90291 USA

TURNER, Dr. R. E., NASA Langley Research Center, Hampton, VA 23665 USA

TWIDDY, Prof. N. D., Department of Physics, University College of Wales, Penglais, Aberystwyth, Dyfed, ST23 3BZ, United Kingdom

TWITCHELL, Dr. P. F., Code 124, Office of Naval Research, 800 N Quincy Street, Arlington, VA 22217 USA

UCHINO, Dr. C., Meteorological Research Institute, Nagamine, Yatabe, Ibaraki 305, Japan

UNGSTRUP, Dr. E., Danish Space Research Institute, Lundtoftevej 7, Lyngby DK-2800, Denmark

UPLINGER, Dr. W. G., ORG 95-41, Building 201, Lockheed Palo Alto Research Laboratory, 3251 Hanover Street, Palo Alto, CA 94304 USA

URBARZ, Dr. H., Aussenstelle Weissenau, Astronomisches Institut uni Tübingen, 7980 Rasthalde, Ravensburg, Federal Republic of Germany

USTINOV, Dr. E. A., Institute of Atmospheric Physics, Moscow, USSR

VAISBERG, Dr. O. L., Space Research Institute, Academy of Science, 84/32 Profsoyuznaya, 117810 Moscow, Gsp-1, USSR

VALLANCE-JONES, Dr. A., HIA, National Research Council, Ottawa, K1A 0R6 Canada

VALLINKOSKI, Dr. M., Division of Geophysics, Finnish Meteorological Institute, Box 503, Helsinki SF 00101, Finland

VANASSE, Dr. G. A., Air Force Geophysics Laboratory, Hanscom Air Force Base, MA 01731 USA

VAN BLADEL, Prof. J., 32 Avenue Albert Lancaster, B-1180 Brussels, Belgium

VAN DER PIEPEN, Dr. H., DFVLR, Institut für Optoelektronik, Oberpfaffenhofen D-8031, Federal Republic of Germany

VAN DER WESTHUYSEN, Dr. A. O., CSIR, Box 395, Pretoria, South Africa

VAN HEMELRIJCK, Dr. E., Belgian Institute for Space Aeronomy, Ringlaan 3, B-1180 Brussels, Belgium

VAN HORN, Dr. J. C., Chemical Manufacturers Association, 2501 M Street, NW,
Washington, DC 20037 USA

VAN MIEGHEM, Dr. J. M., Institut Royal Meteorologique de Belgique, Av de
Armures 34, B-1180 Brussels, Belgium

VAN SABBEN, Dr. D., Division of Geophysics, Royal Netherland Meteorology
Institute, P.O. Box 201, DeBilt 3730AE, The Netherlands

VANZANDT, Dr. T. E., Code R 445, National Oceanic and Atmospheric Administra-
tion, 325 Broadway, Boulder, CO 80303 USA

VARSHNEYA, Prof. Dr. N. C., Physics Department, University of Roorkee, Roorkee
24/667, India

VASSY, Dr. A. T., Tour 14, Faculte des Sciences, 9 Quai St Bernard, 75005
Paris, France

VASYLIUNAS, Dr. V. M., Max-Planck-Institut fur Aeronomie, Postfach 20,
Katlenburg-Lindau 3, D-3411, Federal Republic of Germany

VAUGHAN, Dr. G., Department of Physics, University College of Wales, Pengalis,
Aberystwyth, SY23 3BZ, United Kingdom

VAUGHAN, Dr. W. W., Atmosphere Science Division, NASA Marshall Space Flight
Center, Mail Code ES81, Huntsville, AL 35812 USA

VEDDER, Dr. J. F., Mail Stop 245-5 Ames Research Center, Moffett Field, CA
94035 USA

VELINOV, Dr. P., Geophysical Institute, Bulgarian Academy of Science, Akad G.
Bonchev Str, Block 3, Sofia, Bulgaria

VELTEN, Dr. E., Dornier System GMBH, ABT ERPE, Postfach 136D, Friedrichshafen
D-7990, Federal Republic of Germany

VENKATESWARAN, Dr. S. V., University of California, 405 Hilgard Avenue, Los
Angeles, CA 90024 USA

VENNE, Dr. D. E., Meteorology Research Department, Control Data Corporation,
Box 1249, Minneapolis, MN 55440 USA

VERMA, Prof. S. D., Gujarat University, Navrangpura, Ahmedabad 380009, India

VERNEKAR, Dr. K. G., Indian Institute of Tropical Meteorology, Ramdurg House,
University Road, Pune 411005, India

VERNIN, Dr. J., Department d'Astrophysique, IMSP Parc Valrose, 06034 Nice Cedex
France

VETTE, Dr. J. I., Code 601, NASA Goddard Space Flight Center, Greenbelt, MD
20771 USA

VIAL, Dr. F., L.P.S.P., BP10, 91370 Verrieres-le-Buisson, France

VICE, Mr. R. W., National Institute for Telecommunications Research, CSIR, Box
395, Pretoria 0001, South Africa

VIDAL-MADJAR, Dr., Laboratoire Chimie Analyt Physique, Ecole Polytechnique, 91120 Palaiseau, France

VIGGIANO, Dr. A., LID Air Force Geophysical Laboratory, Hanscom Air Force Base, MA 01731-5000 USA

VIJAY VERGIA, Dr. S. K., School of Basic Science and Humanities, Udaipur University, Udaipur 313001, India

VILLONE, Dr. B., CONS Nazionale D Ricerche, Instituto di Cosmo, Geofisica, Corso fiume, 4, 10133 Torino, Italy

VINCENT, Dr. R. A., Department of Physics, University of Adelaide, Adelaide 5001, Australia

VINNICHENKO, Dr. N. K., Central Aerological Observatory, 7 Pervomayakaya Ul, Dolgoprudnaya, Moscow Region, USSR

VISCONTI, Prof. G., Instituto di Fisica, Universita, L'Aquila 671000, Italy

VISKOV, Dr. V. V., Soviet Geophysical Committee, Molodezhnaya 3, Moscow 114296, USSR

VISWANATHAN, Mr. G., ISTRAC-ISRO, Peenya Industrial Estate, Peenya, Bangalore 560058, India

VIVONA, Dr. F. M., Instituto Fisica Atmosfera, Piazzale Liugi Sturzo 31, Rome 00144, Italy

VOGE, Dr. M. J., Postes et Telecomm, 46, Rue Barrault, 75634 Paris Cedex 13, France

VOLLAND, Dr. H. E., Radiosternwarte, Universitat Bonn, Auf Dem Huegel 71, Bonn/Rhein 53, Federal Republic of Germany

VON BIEL, Dr. H. A., Department of Physics, University of Canterbury, Christchurch, New Zealand

VONDRAK, Dr. R., Space Science Laboratory, 52-12/255, Lockheed Palo Alto Research Laboratory, 3251 Hanover Street, Palo Alto, CA 94304 USA

VON WUTHENAU, Ing. F. F., Obs. Astro. Felix Aguilar, Avda Benzvidez 8175 Oeste, Marquesado-San Juan, Argentina

VON ZAHN, Prof. U., Physikalisches Institut, Universitat Bonn, Nussallee 12, Bonn 1, 5300, Federal Republic of Germany

VUORELA, Prof. L. A., Finnish Meteorological Institute, Vurileaten 24, Box 053, Helsinki 00101, Finland

VUPPUTUNI, Dr. R. K. R., Atmospheric Environment Service, 4905 Dufferin Street, Downsville, Ontario M3H 5T4, Canada

VYAS, Dr. N. M., Department of Atmospheric Physics, Oxford University, Parks Road, Oxford OX1 3PU, United Kingdom

WADA, Dr. M., Institute of Physics and Chemical Research, 1-7-13 Kaga Itabashi-ku, Tokyo 173, Japan

WAGNER, Dr. C. U., ZISTP, Telegrafenberg A50 Potsdam DDR-1500, German Democratic Republic

WAKAI, Dr. N., Radio Research Laboratories, 4-2-1 Nukui-kita, Koganei, Tokyo 184, Japan

WAKASUGI, K., Department of Electrical Engineering, Kyoto Institute of Technology, Matsugasaki, Kyoto 606, Japan

WAKELYN, Dr. N. T., Mail Stop 404 B, NASA Langley Research Center, Hampton, VA 23665 USA

WALCZENSKI, Dr. J., St Institute of Hydrology and Meteorology, PIHM, Borowego 6, Cracow 30-215, Poland

WALDMEIER, Prof. M., Eidgenossich Sternwarte, Schmelzbergstrasse 25, Zurich 8006, Switzerland

WALDTHUETEL, Dr. P., DMN/EERM, 77 Rue de Sevres, Boulogne 92100, France

WALKER, Prof. A. D. M., Physics Department, University of Natal, King George V Avenue, Durban 4001, South Africa

WALKER, Dr. J. K., Earth Physics Branch, EMR, 1 Observatory Crescent, Ottawa, Ontario, Canada K1A 043

WALSHAW, Dr. C. D., Clarendon Laboratory, Oxford University, Oxford OX1 3PU, United Kingdom

WALT, Dr. M., Organization 90-03, Building 201, Lockheed Research Laboratory, 3251 Hanover Street, Palo Alto, CA 94304 USA

WALTERSCHEID, Dr. R. L., The Aerospace Corporation, P.O. Box 92957, Los Angeles, CA 90009 USA

WALTON, Dr. J. J., Lawrence Livermore Laboratory, P.O. Box 808, Livermore, CA 94550 USA

WANG, Mr. C., Institute of Electronics, Chinese Academy of Sciences, Beijing, China

WANG, Mr. J. F., Department of Mechanical Engineering, University of Alabama, Huntsville, AL 35899 USA

WANG, Dr. P.-H., Institute for Atmospheric Optics and Remote Sensing, P.O. Box P, Hampton, VA 23666 USA

WANG, Dr. W.-C., Atmospheric and Environmental Research, 840 Memorial Drive, Cambridge, MA 02139 USA

WANG, Mrs. Y., P.O. Box 5112, Beijing, China

WANG, Dr. Y.-J., P.O. Box 5112, Beijing, China

WARD, Prof. J., Physics Department, James Cook University, Townsville Q. Australia

WARDILL, Dr. P., Mawson Institute for Antarctic Research, University of Adelaide, North Terrace, Adelaide 5000, Australia

WARNECK, Prof. P., Max-Planck-Institut fur Chemie, Saarstrasse, POB 3060,
Mainz D-6500, Federal Republic of Germany

WARNECKE, Prof. Dr. G., Fachrichtung Meteorologie, Freie Universitat Berlin,
Thielallee 49, Berlin 33, Federal Republic of Germany

WASHIMI, Dr. H., Research Institute of Atmospherics, Nagoya University, 3-13
Honohara, Toyokawa, Aichi 442, Japan

WATANABE, Dr. T., Institute of Physics, University of Tsukuba, 1-1-1 Tennodai,
Sakura-mura, Niihari-gun, Ibaraki 305, Japan

WATERMAN, Prof. A. T., Radioscience Laboratory, Stanford University, Stanford,
CA 94305 USA

WATERS, Dr. J., Jet Propulsion Laboratory, California Institute of Technology,
Pasadena, CA 91003 USA

WATKINS, Dr. B. J., Geophysical Institute, University of Alaska, 903 Koyukuk
Avenue N, Fairbanks, AK 99701 USA

WATSON, Dr. R., NASA Headquarters, 400 Maryland Avenue, SW, Washington, DC
20002 USA

WATT, Dr. A. D., Watt Engineering LTD, R.R. 1, Box 183, Cedaredge, CO 81413
USA

WAYNE, Dr. R. P., Physical Chemistry Laboratory, South Parks Road, Oxford OX1
3PU, United Kingdom

WEI, Dr. M.-Y., National Science Foundation, 1800 G Street, NW, Room 644,
Washington, DC 20550 USA

WEILL, Dr. G. M., CNES, 127 Rue de l'Universite, 75007 Paris, France

WEINSTOCK, Dr. E. M., Engineering Science Laboratory, Harvard University, 40
Oxford Street, Cambridge, MA 02138 USA

WEINSTOCK, Dr. J., Aeronomy Laboratory, National Oceanic and Atmospheric
Administration, 325 Broadway, Boulder, CO 80303 USA

WEIR, Dr. R., Aerosol Information Service, 252 George Street, Sydney 2000,
Australia

WELLER, Dr. L., M/S K75-32, Boeing Company, 3801 South Oliver, Wichita, KS
67206 USA

WELLS, Mr. M. B., Radiation Research Association, Inc., 4425 West Vickery
Street, Fort Worth, TX 76107 USA

WENDKER, Dr. H. J., Hamburger Sternwarte, Gojenbergsweg 112, Hamburg 80 205,
Federal Republic of Germany

WENDLAND, Dr. W., Illinois State Water Survey, Box 5050, Station A, Champaign,
IL 61820 USA

WERNIK, Dr. A. W., Space Research Center, Polish Academy of Sciences, UL,
Ordonia 21, 01-237 Warszawa, Poland

WESCHOTT, Dr. E. M., Geophysical Institute, University of Alaska, Fairbanks, AK 99701 USA

WEST, Dr. R. M., European Southern Observatory, Karl-Schwarzschild-Strasse 2, D-8046 Garching bei Munchen, Federal Republic of Germany

WESTERLUND, Dr. S., Kiruna Geophysical Institute, Box 704, Kiruna S981 27, Sweden

WHITE, Mr. O. R., High Altitude Observatory, National Center for Atmospheric Research, Boulder, CO 80307 USA

WHITEHEAD, Dr. J. D., Department of Physics, University of Queensland, St. Lucia, Q4067, Australia

WHITTEN, Dr. R. C., Space Science Division, NASA Ames Research Center, Moffett Field, CA 94035 USA

WIBBERENZ, Prof. G., Institut fur Kernphysik, Olshausenstr. 40-60, 2300 Kiel, Federal Republic of Germany

WICKWAR, Dr. V. B., SRI International, 333 Ravenswood Avenue, Menlo Park, CA 94025 USA

WIDDEL, Dr. H. U., Max-Planck-Institut fur Aeronomie, Katlenburg-Lindau 3, D-3411, Federal Republic of Germany

WILD, Dr. J. P., Division of Radiophysics, CSIRO, Box 76, Epping NSW 2121, Australia

WILHELM, Dr. K., Max-Planck-Institut fur Aeronomie, Katlenburg-Lindau 3, D-3411, Federal Republic of Germany

WILHELMI, Mr. A. J., Mail Stop 244-14, NASA Ames Research Center, Moffett Field, CA 94035 USA

WILKERSON, Dr. T. D., Institute of Physical Science and Technology, University of Maryland, College Park, MD 20832 USA

WILKINSON, Dr. P. J., Ionospheric Prediction Service, P.O. Box 702, Darlinghurst 2010, Sydney, Australia

WILLIAMS, Dr. D. J., Applied Physics Laboratory, Johns Hopkins University, Johns Hopkins Road, Laurel, MD 20707 USA

WILLIAMS, Dr. E. R., Department of Physics, University College of Wales, Penglais, Aberystwyth, Dyfed SY23 3BZ, United Kingdom

WILLIAMS, Dr. S., Meteorology Department, The Pennsylvania State University, University Park, PA 16802 USA

WILLIAMSON, Dr. E. J., Department of Atmospheric Physics, Clarendon Laboratory, Oxford OX1 3PU, United Kingdom

WILLIAMSON, Dr. P. R., STARLAB/SEL, DUR #202, Stanford University, Stanford, CA 94305 USA

WILLMAN, Dr. Ch. I., Eeste NSV Teaduste Akadeemia, Fuusika JA Astronomia Institut, Tartu, Tahetorn, Estonia, USSR

WILSON, Dr. J. C., Department of Mechanical Engineering, University of Minnesota, 111 Church Street, SE, Minneapolis, MN 55455 USA

WILSON, Dr. W. J., Jet Propulsion Laboratory, 168-327, 4800 Oak Grove Drive, Pasadena, CA 91109 USA

WIRTH, Mr. J., Physikalischs Institut, Universitat Bonn, Nussallee 12, Bonn 1, D-5300, Federal Republic of Germany

WISEMBERG, Mr. J., Institut d'Aeronomie Spatiale de Belgique, Avenue Circulaire 3, B-1180 Brussels, Belgium

WITT, Dr. G., Department of Meteorology, University of Stockholm, S-10691, Stockholm, Sweden

WITTLIES, Ms. J. J., Honeywell Electro-Optics, 2 Forbes Road, Lexington, MA 02173 USA

WOFSY, Dr. S. C., Pierce Hall, Harvard University, 29 Oxford Street, Cambridge, MA 02138 USA

WOODMAN, Dr. R. F., Instituto Geofisico del Peru, Apartado 3747, Lima, Peru

WOODS, Dr. P., Quantum Meteorology Division, National Physical Laboratory, Teddington, Middlesex, United Kingdom

WOODS, Dr. R. O., Sandia Laboratories, Org. 1735, Albuquerque, NM 87115 USA

WORREST, Dr. R. C., Air Pollution Effects Branch, Environmental Research Laboratory, 200 SW 35th Street, Corvallis, OR 97330 USA

WRAIGHT, Dr. P. C., Department of Natural Philosophy, University of Aberdeen, Aberdeen AB9 2UE, United Kingdom

WRATT, Dr. D. S., Meteorological Office, P.O. Box 722, Wellington, New Zealand

WRIGHT, Dr. J. W., Max-Planck-Institut fur Aeronomie, Postfach 20, D-3411, Katlenburg-Lindau 3, Federal Republic of Germany

WU, Dr. C. H., Engineering and Research Station, Ford Motor Company, P.O. Box 2053, Dearborn, MI 48121 USA

WU, Dr. S.-T., University of Alabama, P.O. Box 1247, Huntsville, AL 35899 USA

WUEBBLES, Mr. D. J., Mail Code L-142, Lawrence Livermore Laboratories, P.O. Box 808, Livermore, CA 94550 USA

WYNTJES, Dr. G., Block Engineering Inc., 19 Blackstone Street, Cambridge, MA 02139 USA

XANTHAKIS, Prof. J., Academy of Athens, 14 Anagnostopoulou Street, Athens 163, Greece

XU, Mr. A., Department of Astronomy, Nanjing University, Nanjing, China

XU, Dr. C. F., Institute of Space Physics, Academia Sinica, Box 5112, Beijing, China

XU, Mr. R.-L., Institute of Space Physics, P.O. Box 5112, Beijing, China

YAMAGUCHI, Dr. Y., Kakicka Magnetic Observatory, 595 Kakioka Yasato-machi, Niihari-gun, Ibaraki 315-01, Japan

YAMAMOTO, Dr. G., Miyagi University of Education, Aramaki-Aoba, Sendai, Miyagi 980, Japan

YAMAMOTO, Prof. R., Laboratory for Climatic Change Research, Kyoto University, 17-1 Ohmine-cho, Kitakazan, Yamashina-ku, Kyoto 607, Japan

YAMANAKA, Dr. M. D., Laboratory of Earth Sciences, Faculty of Education, Yamaguchi University, 1677-1, Yoshida, Yamaguchi City, Yamaguchi 753, Japan

YANG, Prof. J. W., Box 5112, Beijing, China

YASHPAL, Prof., University Grants Commission, Bahadur Shah Zafar Marg, New Delhi 110002, India

YATES, Dr. H. W., FB-4, Room 3010, National Environmental Satellite Section, Washington, DC 20233 USA

YE, Mr. S. H., Purple Mountain Observatory, Academia Sinica, Nanjing, China

YEH, Prof. K. C., Department of Electrical and Computer Engineering, University of Illinois, 1406 West Green, Urbana, IL 61801 USA

YENCHA, Prof. A. J., Department of Chemistry, State University of New York, Albany, NY 12222 USA

YIN, Dr. T., Burma Meteorological Department, Pagoda Street, Kaba-ayé, Postoffice, Rangoon, Burma

YONEZAWA, Dr. T., Chubu Institute of Technology, 1200 Matsumoto-cho, Kasugai, Aichi 487, Japan

YONG, Mr. J.-W., Institute of Space Physics, P.O. Box 7720, Beijing, China

YOUNG, Dr. D. T., Mail Stop 436, Los Alamos Scientific Laboratory, Box 1663, Los Alamos, NM 87545 USA

YU, Dr. H. R., P.O. Box 5112, Beijing, China

YUE, Dr. G., Mail Stop 233A, NASA Langley Research Center, Hampton, VA 23665 USA

YUEN, Mr. H. C., Fluid Mechanics Department, TRW Defense and Space Systems Group, R1/1008, Redondo Beach, CA 90278 USA

YUEN, Dr. P. C., Electrical Engineering Department, University of Hawaii, 2540 Dole Street, Honolulu, HI 96822 USA

YUNG, Dr. Y., Center for Earth and Planetary Physics, Harvard University, Cambridge, MA 02138 USA

ZADOROZHNY, Dr. A. M., Novosibirsk State University, Novosibirsk 630090, USSR

ZALPURI, Dr. K. S., Radio Science Division, National Physical Laboratory, New Delhi 10012, India

ZAMLUUTTI, Mr. C. F., INPE Caixa Postal 515, Sao Jose Dos Campos, 12200 Sao Paulo, Brazil

ZANDER, Dr. R. J., Institute d'Astrophysique, Universite de Liege, Avenue de Cointe, B-4200 Ougree-Liege, Belgium

ZEREFOS, Prof. C. S., Atmospheric Physics, University of Thessaloniki, Thessaloniki, Greece

ZETTERQUIST, Dr. P., Space Science Program, Swedish Space Corporation, Tritonvagen 27, Solna 2-171 54, Sweden

ZETZSCH, Dr. C., Ruhr Universitat, Postfach 2148, Bochum-Querenburg 4630, Federal Republic of Germany

ZHANG, X.-J., Department of Space Physics, Wuhan University, Wuhan, China

ZHANG, Prof. Qu, Lanzhou Institute of Plateau, Atmospheric Physics, Academia Sinica, Lanzhou, Gansu, China

ZHEN, Miss L., P.O. Box 5112, Beijing, China

ZHU, Mr. B. Y., P.O. Box 5112, Beijing, China

ZHU, Prof. G. K., Institute of Geophysica, Chinese Academy of Science, Beijing, China

ZHU, Mr. X., Department of Atmospheric Science, AK-40, University of Washington, Seattle, WA 98195 USA

ZHUANG, Mr. H., P.O. Box 2701, Beijing, China

ZHULIN, Dr. I. A., IZMIRAN PO Akademgorodok, Pokolskiy District, Moscow Region 142092, USSR

ZILLMAN, Dr. J. W., Research Bureau of Meteorology, Box 1289K, Melbourne, Victoria 3001, Australia

ZIMMERMAN, Dr. S. P., CRAB, Air Force Geophysics Laboratory, Hanscom Air Force Base, MA 01730 USA

ZIMMERMANN, Dr. G., Institut fur Kosmosforschung, Akademie der Wissenschaften, Rudower Chaussee 5, Berlin-Adlershof DDR 1199, German Democratic Republic

ZINN, Dr. J., Los Alamos Science Laboratory, Box 1663, Los Alamos, NM 87545 USA

ZOMORRODIAN, Dr. H., Geophysics Institute, Tehran University, Tehran 14, Amirabad, Iran

CUMULATIVE LISTING FOR THE MAP HANDBOOK

Volume	Contents	Date of Publication
1	National Plans, PMP-1 Report, PMP-2 Report, PMP-3 Report, Approved MAP Projects	June 1981
2	Symposium on Middle Atmosphere Dynamics and Transport (Extended Abstracts)	June 1981
3	PMP-5 Report, MSG-1 Report, MSG-2 Report, MSG-3 Report, Antarctic Middle Atmosphere Project (AMA), EXOS-C Scientific Observations, WMO Report No. 5, Updated Chapter 2 of MAP Planning Document, Condensed Minutes of MAPSC Meetings	November 1981
4	Proceedings of MAP Assembly held in Edinburgh, 14-15 August 1981, Condensed Minutes of MAP Steering Committee Meetings held in Edinburgh, Proceedings of MAP Open Meeting held in Hamburg, 19 August 1981	April 1982
5	A Catalogue of Dynamic Parameters Describing the Variability of the Middle Stratosphere during the Northern Winters	May 1982
6	MAP Directory	November 1982
7	Acronyms, Condensed Minutes of MAP Steering Committee Meetings, Ottawa, May 1982, MAP Project Reports, National Reports, Committee Reports, PMP and MSG Reports, Workshop Reports, Announcements and Corrigendum	December 1982
8	MAP Project Reports: DYNAMICS, GLOBUS, and SSIM, MSG-7 Report, National Reports: Czechoslovakia, USA	July 1983
9	Papers presented at the URSI/SCOSTEP Workshop on Technical Aspects of MST Radar, May 23-27, 1983, Urbana	December 1983
10	Papers presented at the International Symposium on Ground-Based Studies of the Middle Atmosphere, May 9-13, 1983, Schwerin, German Democratic Republic	May 1984
11	Condensed Minutes of the MAP Steering Committee Meetings held in Hamburg 13-14 August 1983, Research Recommendations for Increased US Participation in the Middle Atmosphere Program, GRATMAP Project Report, MAP Study Group MSG-7 Report	June 1984
12	Coordinated Study of the Behavior of the Middle Atmosphere in Winter (PMP-1) Workshops	July 1984
13	Ground-Based Techniques	November 1984
14	Papers presented at the URSI/SCOSTEP Workshop on Technical Aspects of MST Radar, May 22-25, 1984, Urbana	December 1984
15	Balloon Techniques	June 1985
16	Atmospheric Structure and its Variation in the Region 20 to 120 km: Draft of a New Reference Middle Atmosphere	July 1985
17	Condensed Minutes of MAP Steering Committee Meeting, Condensed Minutes of MAP Assembly, MAP Projects and Study Group Reports, National Reports	August 1985
18	Papers presented at MAP Symposium, November 26-30, 1984, Kyoto (Extended Abstracts)	December 1985
19	Rocket Techniques	March 1986
20	Papers presented at the URSI/SCOSTEP Workshop on Technical and Scientific Aspects of MST Radar, October 21-25, 1985, Aguadilla, Puerto Rico	June 1986
21	MAPSC Minutes, ATMAP Workshop, Atmospheric Tides Workshop, MAP/WINE Experimenters Meetings, National Reports: Coordinated Study of the Behavior of the Middle Atmosphere in Winter	July 1986
22	Middle Atmosphere Composition Revealed by Satellite Observations	September 1986
23	Condensed Minutes of MAP Steering Committee Meeting, Toulouse, France, June/July 1986	December 1986
24	MAP Directory	May 1987